

AZ1570 AZ1575

all versions



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Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified

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Subject to modification

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CLASS 1 LASER PRODUCT

FEATURE BOARD

POWER BOARD

RECORDER BOARD

EXPLODED VIEWS DIAGRAM

KEYBOARD

CD MODULE

circuit diagram 10 - 1 layout diagram 10 - 2

circuit & layout diagram 11 - 1

circuit & layout diagram 12 - 1

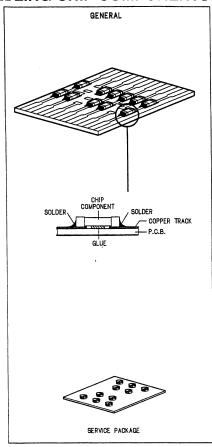
circuit diagram.....13 - 1 layout diagram......13 - 2

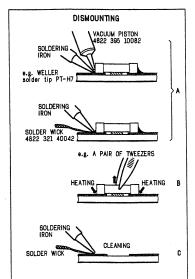
layout diagram......14 - 1 circuit diagram.....14 - 2

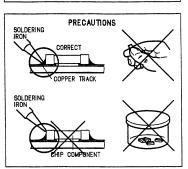
cabinet15 - 1, 15 - 4

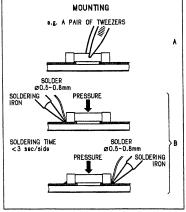
Mechanical partslist15 - 2 to 15 - 3

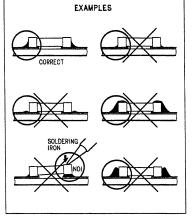
HANDLING CHIP COMPONENTS











© WARNING

All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wristband with resistance. Keep components and tools at this potential.

f ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévite pourrait être considérablement écourtée par le fait qu'aucune précaution nést prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfileer le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.



Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Safety components are marked by the symbol



Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées. Les composants de sécurité sont marqués

d WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

ESD

Sorgen Sie dafür, daß Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.

Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.



Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerätes dar1 nicht verändert werden. Für Reparaturen sind Originalersatzteile zu verwenden.

Sicherheitsbauteile sind durch das Symbol A markiert.

MAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen vermindern. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

i AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparationi occorre quindi essere collegato allo stesso potenziale che quello della massa delapparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si

lavora siano anche a questo potenziale.

ñ

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkeliijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast. De Veiligheidsonderdelen zijn aangeduid met het symbool



Le norme di sicurezza estigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambiago identici a quelli specificati.
Componenty di sicurezza sono marcati con

DANGER: Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

S Varning!

Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

Advarsel!

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse for stråling.



B Varoitus!

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

©

After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists.

The leakage current must not exceed 0.5mA.



"Pour votre sécurite, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

Tuning range

Sensitivity

Selectivity

IF rejection

Image rejection

Wow & flutter

S/N ratio

Fast wind/rewind C60

Frequency response

COMPACT DISC

Channel crosstalk

Laser wavelength

Laser light power

TECHNICAL SPECIFICATIONS

TUNER - AM SECTION GENERAL

-/00/14: 230 V Mains voltage

-/01/11/16 : 120 / 230 V

-/05/10: 240 V

-/13: 220V -/17 : 120 V

Mains frequency -/00/05/10/14: 50 Hz

-/01/11/16 : 50 / 60 Hz

-/13/17: 60 Hz

mains: 9 V (R20 x 6)

remote: 3 V (R6 x 2)

Power consumption 35 W

Battery

: 505 x 163 x 245 mm Dimension (W x H x D)

Weight : 4.5 Kg

AUDIO CASSETTE RECORDER

MW: 531 - 1602 kHz

-/17 : 530 - 1700 kHz

LW: 153 - 279 kHz

29 dB

60 dB

60 dB

MW: 23 dB

MW: 37 dB

LW: 38 dB

LW:

MW:

LW:

MW: $2000 \mu V/m$ at 26dB S/N

LW: $4500 \,\mu\text{V/m}$ at $26dB \, \text{S/N}$

: < 0.48 JIS UWTD

: < 110 sec.

P/B: 125 - 6300 Hz

: 60 dB

: 780 ± 20 nm

: < 0.3 mW

1 kHz : 2 dB

1 kHz: 40 dB

45 dB

: 1 stereo Number of tracks AMPLIFIER Tape speed : 4.76 cm/sec ± 3%

mains: 2 x 1.6 W Output power

battery: 2 x 1.6 W

: 2 x 4 ohm Speaker impedance : 2 x 8 ohm

: 100 Hz - 10 kHz (±3dB) Frequency response

TUNER - FM SECTION Frequency response : 100 Hz - 10 kHz

S/N ratio : 87.5 - 108 MHz Tuning range Channel difference

-/14 : 65.81 MHz - 74 MHz : 10.7 MHz ± 0.03 MHz IF frequency Sensitivity : 18 dB at 26dB S/N Selectivity : 55 dB at 300kHz

IF rejection : 90 dB

Image rejection : 40 dB

SERVICE TOOLS

TORX screwdriver set SBC 163......4822 295 50145

Audio signal disc SBC 429.......4822 397 30184 Playability test disc SBC 444......4822 397 30245

Test disc 5 (disc without errors) +

Test disc 5A (disc with dropout errors, black spots and fingerprints)

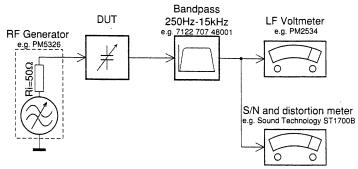
SBC 426/426A......4822 397 30096 Burn in test disc (65 min. 1kHz signal at -30 dB level without "pause").....4822 397 30155

AVAILABLE ESD PROTECTION EQUIPMENT

4822 466 10953 anti-static table mat large 1200x650x1.25mm small 600x650x1.25mm 4822 466 10958 anti-static wristband 4822 395 10223 connection box (3 press stud connections, 1M) 4822 320 11307 **extendible cable** (2m, 2M, to connect wristband to connection box) 4822 320 11305 connecting cable (3m, 2M), to connect table mat to connection box) 4822 320 11306 earth cable (1M , to connect any product to mat or to connection box) 4822 320 11308 KIT ESD3 (combining all 6 prior products - small table mat) 4822 310 10671 wristband tester 4822 344 13999

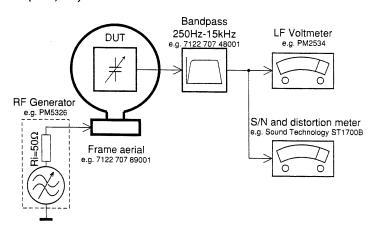
SERVICE MEASUREMENTS

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilottone (19kHz, 38kHz).

Tuner AM (MW,LW)



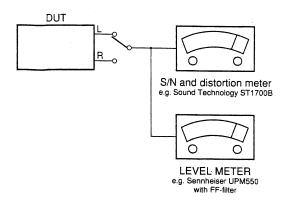
To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage. Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

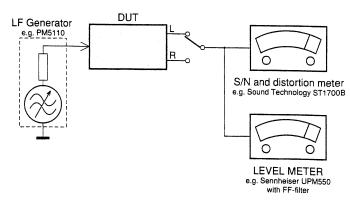
CD

Use Audio Signal Disc SBC429 4822 397 30184 (replaces test disc 3)

RECORDER

Use Universal Test Cassette Fe SBC420 4822 397 30071





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Whenever convenient, use the power supply if you want to conserve battery life. Make sure you remove the plug from the set and wall socket before inserting batteries.

BATTERIES (OPTIONAL)

 Open the battery compartment and insert six batteries, type R-20, UM-4 or D-cells, (preferably alkaline) with the correct polarity as indicated by the "+" and "-" symbols inside the compartment.

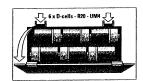
Remote control (supplied)

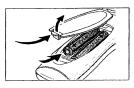
Open the battery compartment and insert two batteries, type AAA, R03 or UM1 (preferably alkaline).

- Replace the compartment door, making sure the batteries are firmly and correctly in place. The set is now ready to operate.
- If BATT LOW lights up, battery power is running low.
- The BATT LOW indicator eventually goes out if the batteries are too weak.
- Incorrect use of batteries can cause electrolyte leakage and will corrode the compartment or cause the batteries to burst.
 Therefore:
- Do not mix battery types e.g. alkaline with carbon zinc.
 Only use batteries of the same type for the set.
- When inserting new batteries, do not try to mix old batteries with the new ones.
- Remove the batteries if the set is not to be used for a long time
- Batteries contain chemical substances, so they should be disposed of properly.

USING AC POWER

- Check if the mains voltage as shown on the type plate located on the back of the set, corresponds to your local power supply. If it does not, consult your dealer or service centre.
- 2. If your set is equipped with a voltage selector, adjust the selector so that it matches with the local mains.
- Connect the mains lead to the wall socket and the set is now ready for use.
- To disconnect the set from the mains completely, remove the plug from the wall socket.





SWITCHING ON AND OFF

- Adjust the POWER slider to the desired sound source: CD, TUNER or TAPE.
- The set is switched off when the POWER slider is in the TAPE/OFF position and the keys on the tape deck are released.
- The volume, sound settings and tuner presets will be retained in the set's memory.

ADJUSTING VOLUME AND SOUND

- Turn the VOLUME/ SOUND CONTROL CENTER control clockwise to increase or anti-clockwise to decrease volume on the set (or press VOLUME 3 or 4 on the remote control).
- ™ Display shows the volume level indication vol and a number from 0.32
- 2. To adjust the bass, mid and high frequency levels, press DIGITAL EQUALIZER once or more until the desired option is displayed. While the option is shown, turn the VOLUME/ SOUND CONTROL CENTER control to increase or decrease (- 5 to + 5 maximum) the desired frequency.
- VOLUME can also be adjusted in this way with a level range from 0-32.
- 3. Press DIGITAL DBB to switch dynamic bass boost on or off.
- If on, the DIGITAL DBB light goes on.
- 4. Press INCREDIBLE SURROUND to switch the surround sound effect on or off.
- ™ If on, the INCREDIBLE SURROUND light goes on.

Note: The effect of INCREDIBLE SURROUND may vary with different types of music.





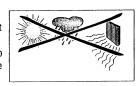
GENERAL INFORMATION

General maintenance

- Do not expose the set, batteries, CDs or cassettes to humidity, rain, sand or excessive heat caused by heating equipment or direct sunlight.
- To clean the set, use a soft, slightly dampened chamois leather. Do not use any cleaning agents containing alcohol, ammonia, benzene or abrasives as these may harm the housing.

Safety information

- Place the set on a hard and flat surface so that the system does not tilt. Make sure there is adequate ventilation to prevent the system from overheating.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.







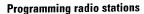
INSTRUCTIONS FOR USE

Tuning to radio stations

- 1. Select TUNER source.
- ™ Łu is displayed briefly and then the radio station frequency is shown.
- 2. Press BAND once or more to select your waveband.
- Press SEARCH or \$ (on the remote control, TUNING or \$) and release when the frequency in the display starts running.
- The tuner automatically tunes to a station of sufficient reception. Display shows 5.c.c.b during automatic tuning.
- TM If an FM station is received in stereo, STEREO is shown.
- 4. Repeat step 3 if necessary until you find the desired station.
- To tune to a weak station, press SEARCH or § briefly and repeatedly until you have found optimal reception.



- For FM, pull out the telescopic aerial.
 Incline and turn the aerial. Reduce its length if the signal is too strong (very close to a transmitter).
- For MW (AM), the set is provided with a built-in aerial so the telescopic aerial is not needed. Direct the aerial by turning the whole set.



You can store up to a total of 30 radio stations in the memory.

- 1. Tune to your desired station (see Tuning to radio stations).
- 2. Press PROG to activate programming.
- ™ Display: PROG flashes.
- 3. Press PRESET 3 or 4 once or more to allocate a number from 1 to 30 to this station.
- 4. Press PROG again to confirm the setting.
- Display: PROG disappears, the preset number and the frequency of the preset station are shown.
- 5. Repeat the above four steps to store other stations.
- You can overwrite a preset station by storing another frequency in its place.

Tuning to preset stations

Press TUNER PRESET 4 or 3 until the desired preset station is displayed.



Changing tuning grid (some versions only)

In North and South America the frequency step between adjacent channels in the AM and FM band are 10 KHz and 100 KHz respectively. In the rest of the world this step is 9 KHz and 50 KHz. Usually the frequency step has been preset in the factory for your area.

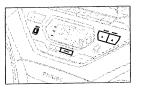
- 1. Check that the set is in the TAPE/OFF position and switched off.
- 2. To select 9KHz: Simultaneously, press PROG and REPEAT on the set.
- 3. Switch the set on to **TUNER** and then release the controls.
- To select 10KHz: Repeat steps 1-3 but in step 2, simultaneously, press PROG and TUNING § on the set.
- When you tune to radio stations, the display shows tuning in either steps of 9 or 10.
- ™ All preset stations will be affected and you may need reprogramme the preset stations.

Playing a CD

- 1. Select CD source.
- 2. Press OPEN•CLOSE to open the CD door.
- ™ Display: ☐den when you open the CD door.
- Insert a CD or CD-R(W) with the printed side facing up and press OPEN-CLOSE to close the CD door.
- Display: I 15C as the CD player scans the contents of a CD. The total number of tracks and playing time are then shown.
- **TW** Display: $\mathbb{T}_{1,50}^{F}$ is shown if the CD R(W) is not finalised.
- Press PLAY-PAUSE 2; (on the remote control 2;) to start playback.
- Display: Current track number and elapsed playing time of the track during CD playback.
- 5. To interrupt playback press PLAY•PAUSE 2; .
- Press PLAY-PAUSE 2; again to resume play.
- The display freezes and the elapsed playing time flashes when playback is paused.
- 6. To stop CD playback, press STOP 9

Note: CD play will also stop when:

- the CD door is opened;
- the CD has reached the end funless you have selected RFPFAT ALL!:
- you select another source: TAPE / TUNER.





3-3

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Selecting a different track

- Press SEARCH or \$ on the set, (on the remote control
 i or \(\mathbf{m} \)) once or repeatedly until the desired track number
 appears in the display.
- If you have selected a track number shortly after loading a CD or in the PAUSE position, you will need to press PLAY•PAUSE
 2; (on the remote control 2;) to start playback.

Finding a passage within a track

- Press and hold down on SEARCH or § (on the remote control 5 or 6).
- The CD is played at high speed and low volume.
- When you recognize the passage you want, release SEARCH or §.
- Normal playback continues.

Note:

During a CD programme or it SHUFFLE REPEAT active, searching is only possible within a track.

Different play modes: SHUFFLE and REPEAT

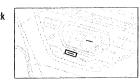
You can select and change the various play modes before or during playback. The play modes can also be combined with PROGRAM. **SHUFFLE** - tracks of the entire CD/ programme are played in

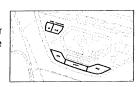
UFFLE - tracks of the entire CD/ programme are played in random order

SHUFFLE and **REPEAT ALL** - to repeat the entire CD/ programme continuously in random order

REPEAT ALL - to repeat the entire CD/ programme
REPEAT and SHUFFLE REPEAT - plays the current (random) track
continuously

- To select your play mode, press the SHUFFLE or REPEAT button before or during playback until the display shows the desired function.
- Press PLAY•PAUSE 2; (on the remote control 2;) to start playback if in the STOP position.
- Playback starts immediately if you have selected a SHUFFLE mode.
- To return to normal playback, press the respective SHUFFLE or REPEAT button until the various SHUFFLE / REPEAT modes are no longer displayed.
- You can also press STOP 9 to cancel your play mode.





Programming track numbers

Programme in the STOP position to select and store your CD tracks in the desired sequence. If you like, store any track more than once. Up to 20 tracks can be stored in the memory.

- Use the SEARCH or S on the set, (on the remote control i or m) to select your desired track number.
- 2. Press PROG.
- ™ Display: PROG and the selected track number. Pro9 appears briefly.
- If you attempt to programme without first selecting a track number, ${}^{\alpha}g_{EL}$ is shown.
- 3. Repeat steps 1-2 to select and store all desired tracks.
- FÜLL is displayed if you attempt to programme more than 20 tracks.
- 4. To start playback of your CD programme, press PLAY•PAUSE 2; (on the remote control 2;).
- If you have selected the tracks during CD play, first press STOP 9, then PLAY-PAUSE 2;

Reviewing the programme

Erasing a programme

You can erase the programme by:

- pressing STOP 9 once in the STOP position;
- pressing STOP 9 twice during playback;
- The display shows $P_{c,p,q}^{c}$ briefly and **PROG** disappears.

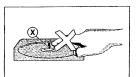
The programme is also erased by:

- pressing the CD door open;
- selecting another source: TAPE / TUNER.

CD player and CD handling

- If the CD player cannot read CDs correctly, use a commonly available cleaning CD to clean the lens before taking the set to repair. Other cleaning methods may destroy the lens.
- The lens of the CD player should never be touched!
- Sudden changes in the surrounding temperature can cause condensation to cloud over on the lens of your CD player. Playing a CD is then not possible. Do not attempt to clean the lens but leave the set in a warm environment until the moisture evaporates.
- Always keep the CD compartment closed to avoid dust on the lens.

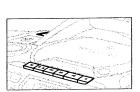




- To take a CD out of its box, press the centre spindle while lifting the CD. Always pick up the CD by the edge and return the CD to its box after use to avoid scratching and dust.
- To clean the CD, wipe in a straight line from the centre towards the edge using a soft, lint-free cloth. Do not use cleaning agents as they may damage the disc.
- · Neverwrite on a CD or attach any stickers to it.

Cassette playback

- 1. Select TAPE source.
- ™ The display shows TAPE throughout tape operation.
- 2. Press OPEN•STOP / 9 to open the cassette door.
- 3. Insert a recorded cassette and close the cassette door.
- 4. Press PLAY 1 to start playback.
- 5. To interrupt playback press PAUSE; To resume, press this key again.
- 6. By pressing **SEARCH** 5 or 6 on the set fast winding of the tape is possible in both directions.
- 7. To stop the tape, press OPEN•STOP / 9.
- The keys are automatically released at the end of the tape, except if PAUSE; has been activated.



GENERAL INFORMATION ON RECORDING

- Recording is permissible insofar as copyright or other rights of third parties are not infringed.
- This deck is not suited for recording on CHROME (IEC II) or METAL (IEC IV) type cassettes. For recording, use only NORMAL type cassettes (IEC I) on which the tabs have not been broken.
- The best recording level is set automatically. Altering the VOLUME, INCREDIBLE SURROUND, DIGITAL EQUALIZER or DBB controls will not affect the recording in progress.
- At the very beginning and end of the tape, no recording will take place during the 7 seconds, when the leader tape passes the recorder heads.
- To protect a tape from accidental erasure, have the tape in front of you and break out the left tab.
 Recording on this side is no longer possible. To record over this side again, cover the tabs with a piece of adhesive tape.

Synchro Start CD recording

- 1. Select CD source.
- 2. Insert a CD and if desired, programme track numbers.
- 3. Press OPEN-STOP / 9 to open the cassette holder.
- 4. Insert a suitable tape into the cassette deck and close the

5. Press **RECORD O** to start recording.

 Playing of the CD programme starts automatically from the beginning of the programme. It is not necessary to start the CD player separately.

To select and record a particular passage within a track:

- Press and hold down on **SEARCH** or § (on the remote control **5** or **6**).
- When you recognize the passage you want, release SEARCH or §.
- To interrupt CD playback press PLAY-PAUSE 2; (on the remote control 2;).
- Recording will begin from this exact point in the track when you press RECORD 9.
- 6. For brief interruptions during recording, press PAUSE ;. To resume recording, press PAUSE ; again.
- 7. To stop recording, press **OPEN•STOP** / **9**.

Recording from the tuner

- 1. Tune to the desired radio station (see Tuning to radio stations).
- 2. Press OPEN•STOP / 9 to open the cassette door.
- Insert a suitable tape into the cassette deck and close the cassette door.
- 4. Press RECORD O to start recording.
- For brief interruptions, press PAUSE; To resume recording, press PAUSE; again.
- 6. To stop recording, press OPEN•STOP / 9.

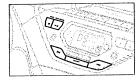
Tape deck maintenance

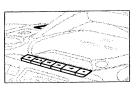
To ensure quality recording and playback of the tape deck, clean parts **A**, **B** and **C** shown in the diagram below, after approx. 50 hours of operation, or on average once a month. Use a cotton bud slightly moistened with alcohol or a special head cleaning fluid to clean both decks.

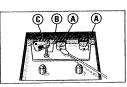
- 1. Open the cassette holder by pressing OPEN•STOP / 9.
- 2. Press PLAY 1 and clean the rubber pressure rollers C.
- Press PAUSE; and clean the magnetic heads A and also the capstan B.
- 4. After cleaning, press OPEN•STOP / 9.

Note

Cleaning of the heads can also be done by playing a cleaning cassette through once.







3-5 5 If a fault occurs, first check the points listed below before taking the set for repair.

If you are unable to remedy a problem by following these hints, consult your dealer or service centre.

WARNING: Do not open the set as there is a risk of electric shock. Under no circumstances should you try to repair the set yourself, as this will invalidate the guarantee.

PROBLEM

- POSSIBLE CAUSE
- REMEDY

No sound/power

- VOLUME not adjusted
- Adjust the VOLUME
- Headphones connected
- Disconnect headphones
- Mains lead not securely connected
- · Connect AC mains lead properly

Severe radio hum or noise

- Electrical interference: set too close to TV/ VCR or computer
- · Increase the distance

Poor radio reception

- Weak radio signal
- FM: Direct the FM telescopic aerial for optimum reception

1915C indication

- CD badly scratched or dirty
- · Replace/ clean CD, see Maintenance
- Laser lens steamed up,
- · Wait until lens has cleared

I isc indication

- CD-R(N) is blank or the disc is not finalised
- Use a finalised CD-R(W)

The CD skips tracks

- CD damaged or dirty
- · Replace or clean CD
- SHUFFLE or PROGRAM is active
- Switch off SHUFFLE / PROGRAM

Poor cassette sound quality

- Dust and dirt on the heads, etc.
- · Clean deck parts, see Maintenance
- Use of incompatible cassette types (METAL or CHROME)
- · Only use NORMAL (IEC I) for recording

Recording does not work

- Cassette tab(s) may be broken
- Apply a piece of adhesive tape over the missing tab space.

Remote control does not function properly

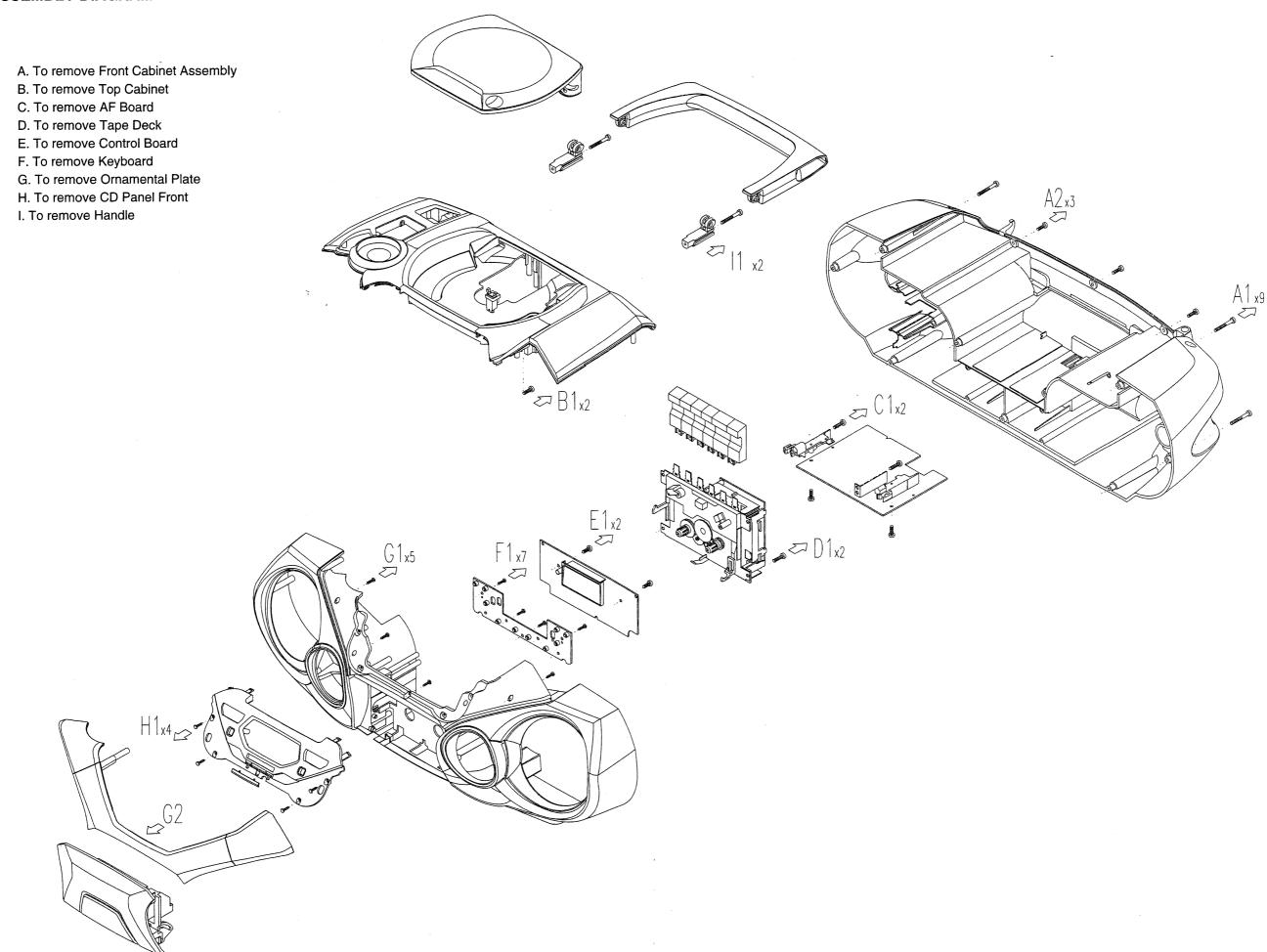
- Batteries exhausted
- · Insert fresh batteries
- Batteries incorrectly inserted
- Insert the batteries correctly
- Distance/ angle between the set too large
- Reduce the distance/ angle.

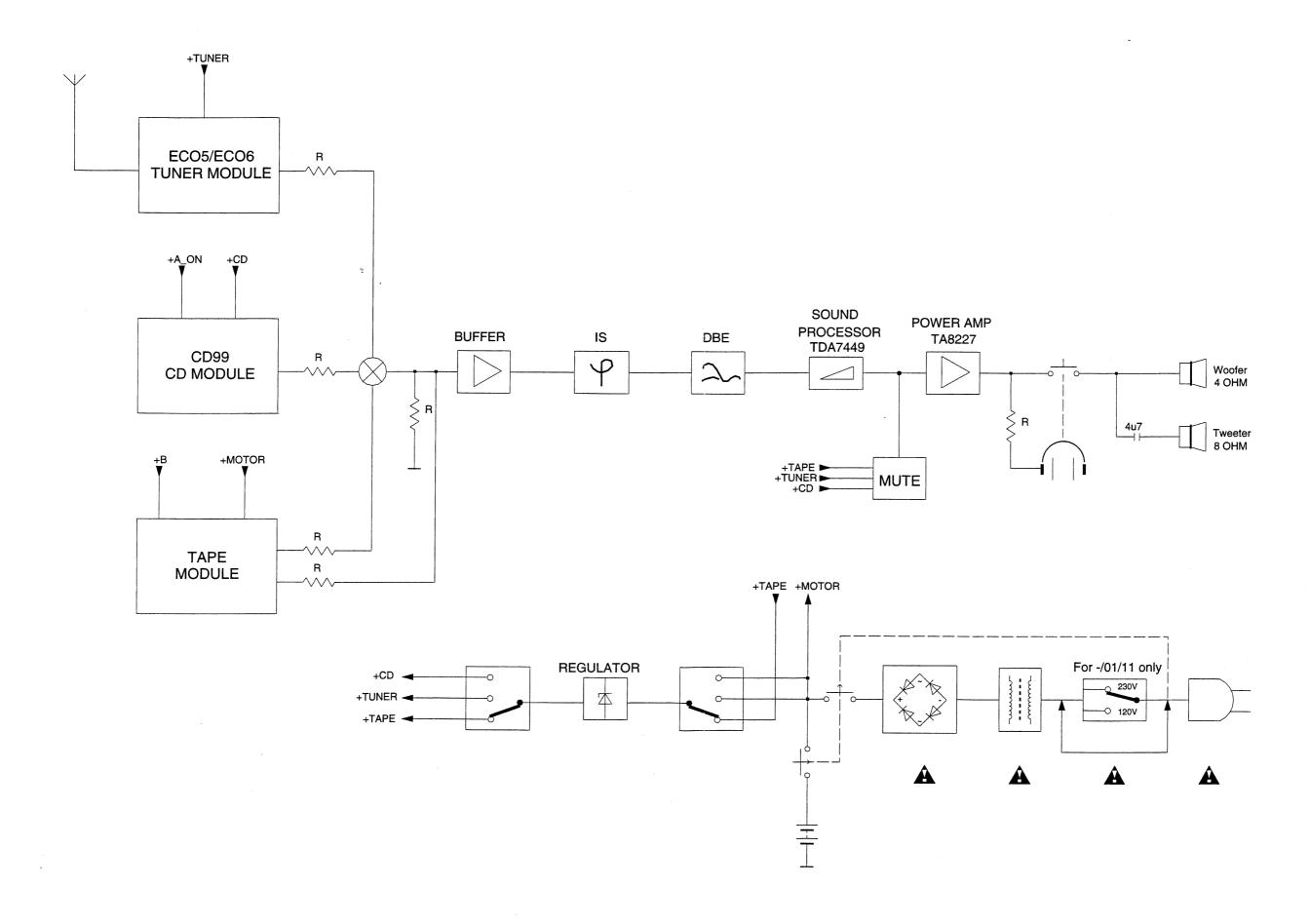
Environmental information

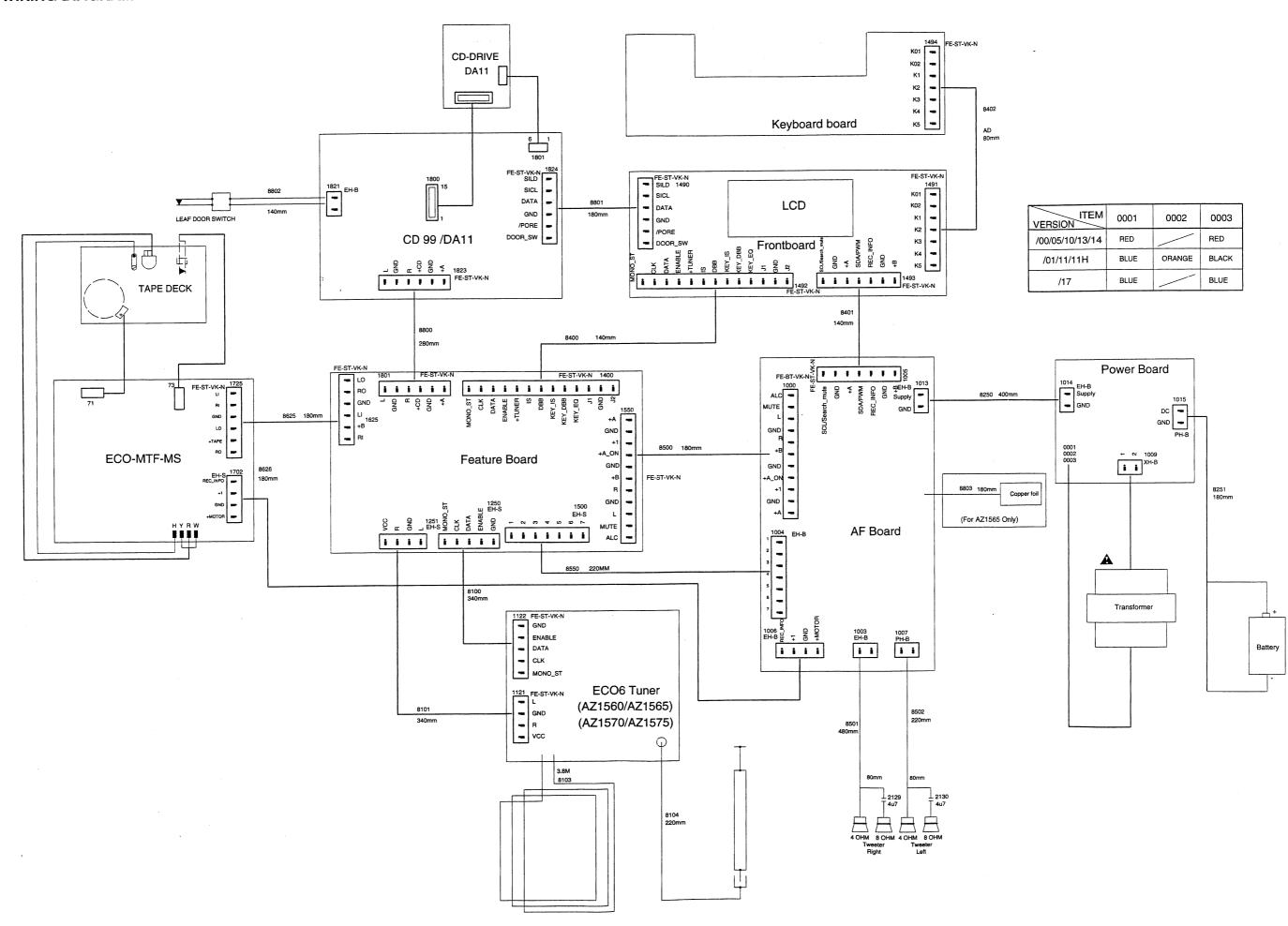
All unnecessary packaging material has been omitted. We have done our utmost to make the packaging easy to separate into three mono-materials: cardboard (box), expandable polystyrene (buffer), polyethylene (bags, protective foam).

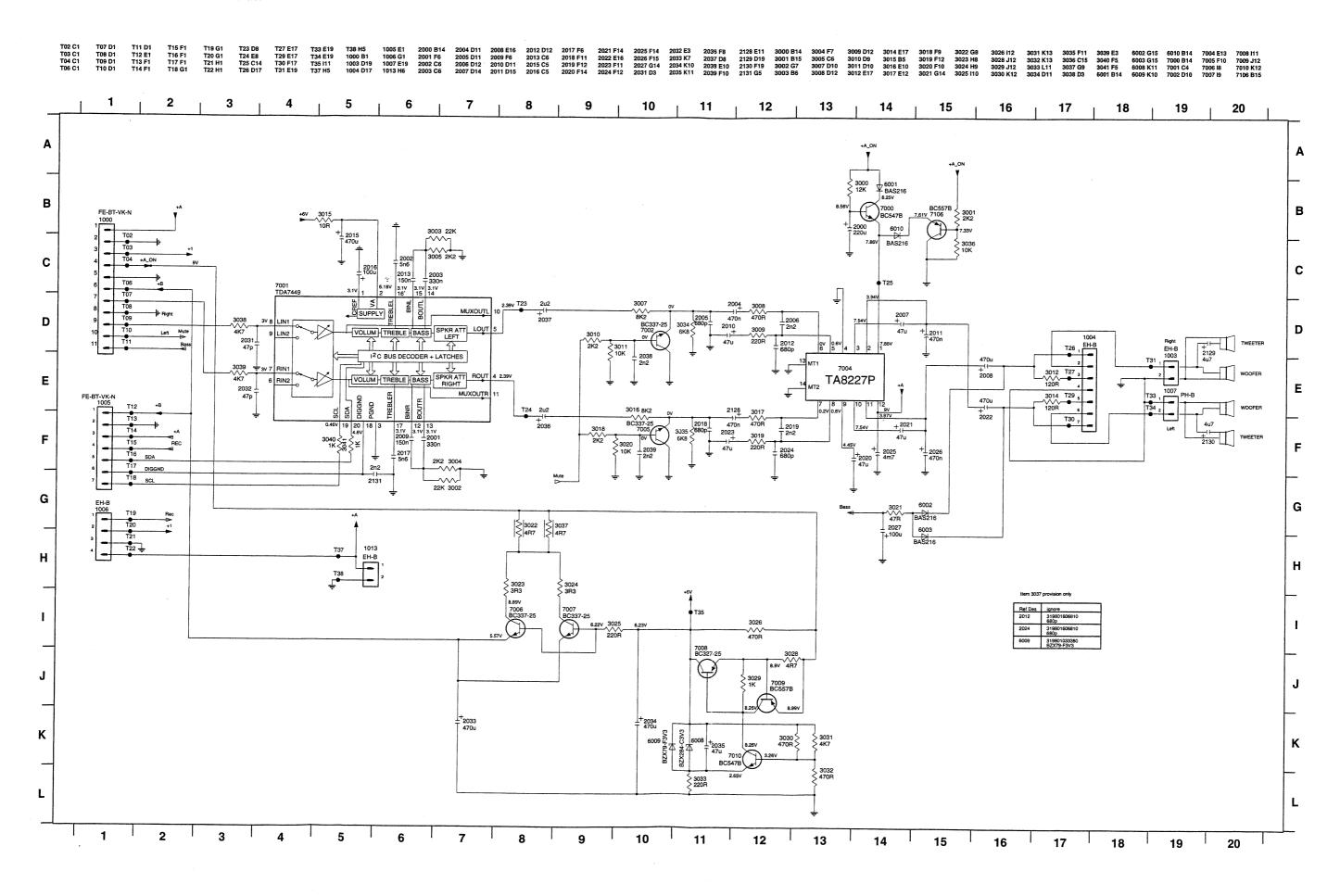
Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

DISASSEMBLY DIAGRAM

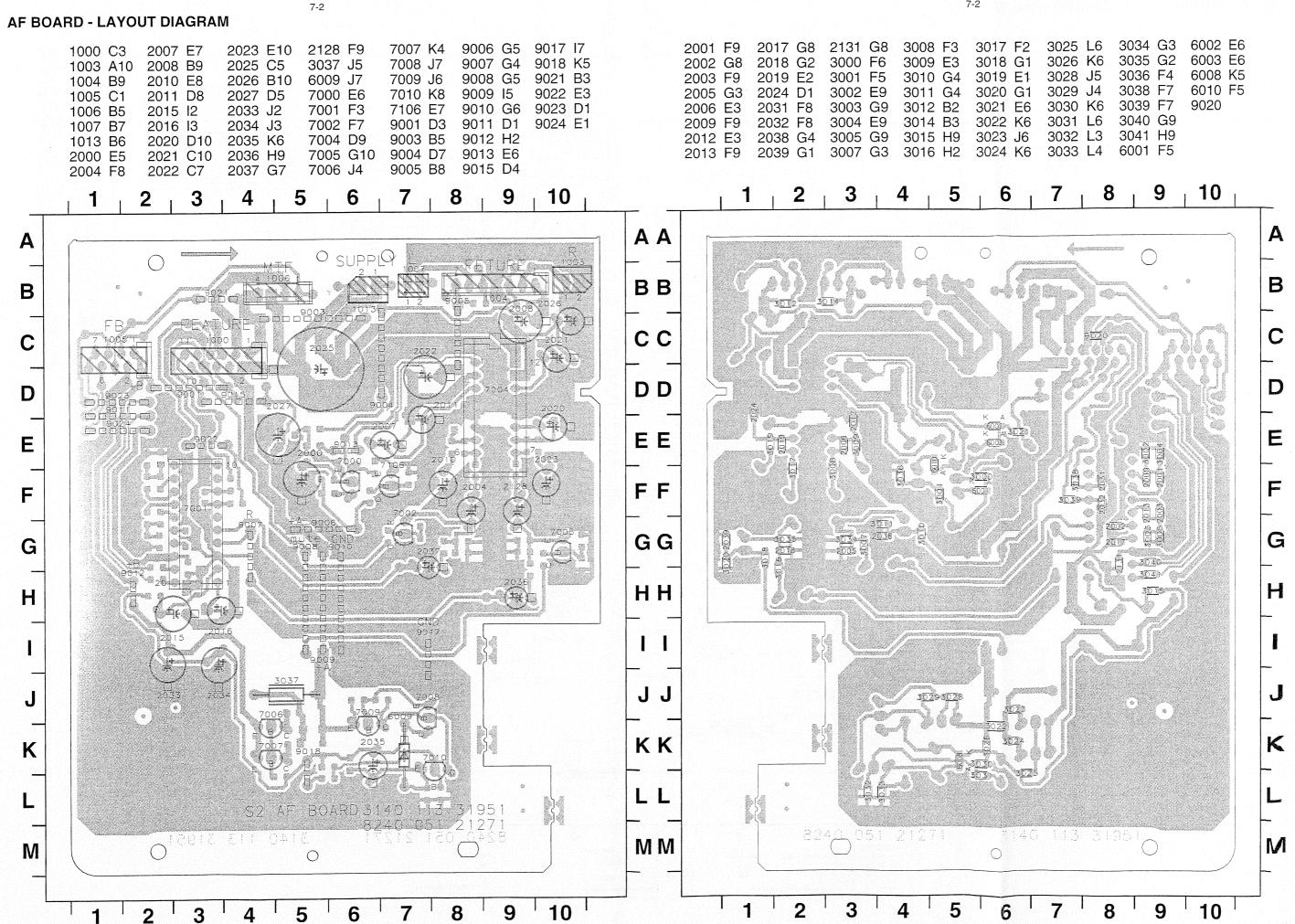


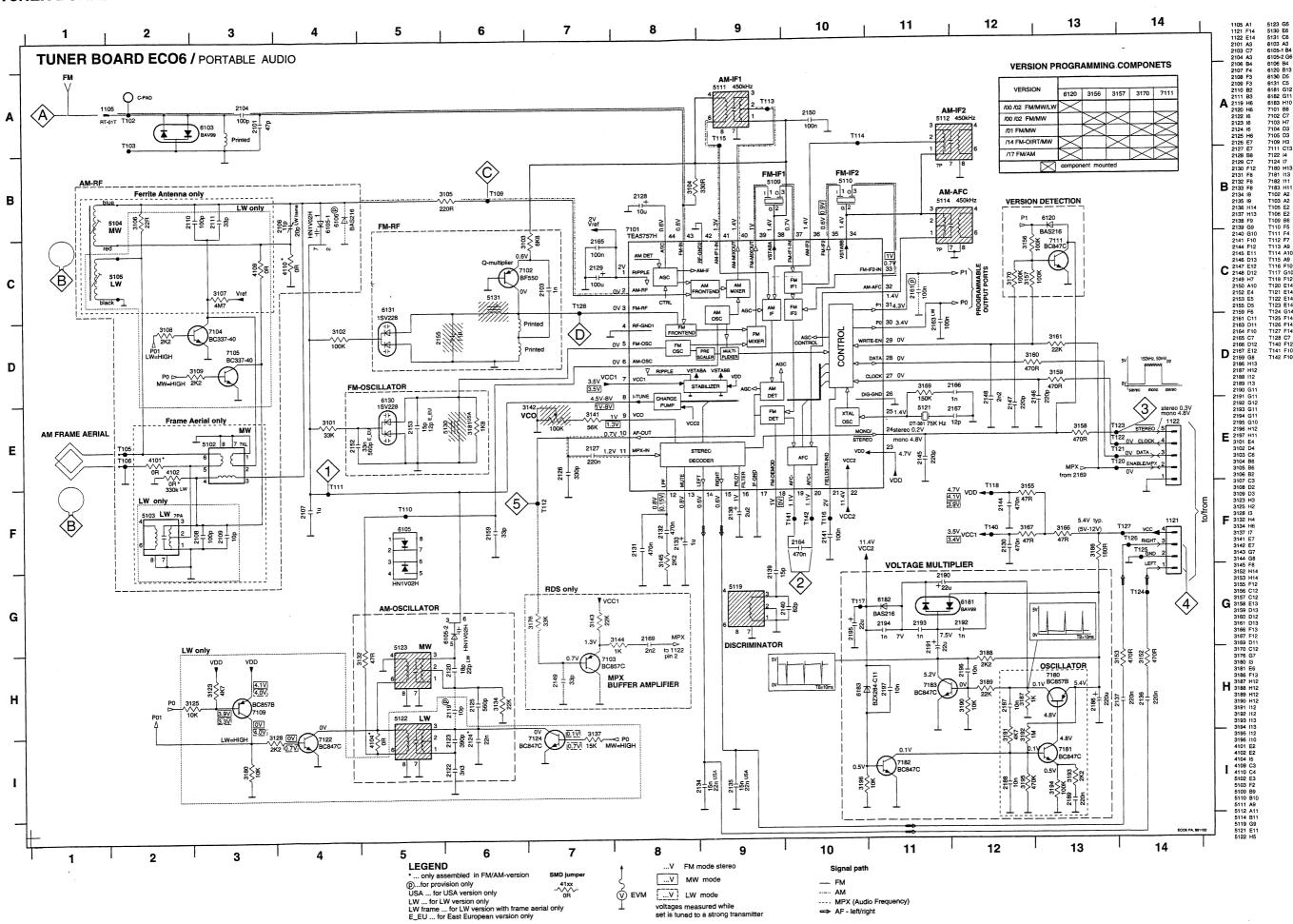












TUNER ADJUSTMENT TABLE (ECO6 FM/MW- and FM/MW/LW - versions with AM-frame aerial)

Waverange	Input frequency	Input	Tuned to	Adjust	Output	Scope/Voltmeter
VARICAP ALIGNMEI	VT					
FM			108MHz	5130		8V ±0.2V
87.5 - 108MHz (65.81 - 74, 87.5 - 108MHz)			87.5MHz (65.81MHz)	check		4.3V ±0.5V (1.2V ±0.5V)
MW			1700kHz	5123		8V ±0.2V
FM/AM-version, 10kHz grid 530 - 1700kHz			530kHz	check		1.1V ±0.4V
FM/MW-version, 9kHz grid			1602kHz	5123		6.9V ±0.2V
531 - 1602kHz			531kHz	check	1	1.1V ±0.4V
LW			279kHz	5122		8V ±0.2V
153 - 279kHz			153kHz	check		1.1V ±0.4V
MW FM/MW/LW- version, 9kHz grid			1602kHz	5123		8V ±0.2V
531 - 1602kHz			531kHz	check		1.1V ±0.4V
FM IF						
FM	10.7MHz, 45mV continuous wave	(D)	shortcircuit to block AFC 2141	5119	2	0 ± 3 mV DC
FM RF						
FM 87.5 - 108MHz	108MHz	A	108MHz	2155		MAX
(65.81 - 74, 87.5 - 108MHz)	87.5MHz (65.81MHz)	mod=1kHz f=±22.5kHz	87.5MHz (65.81MHz)	5131		
VCO						
FM	98MHz, 1mV continuous wave	A	98MHz	3142	3>	152kHz ±1kHz ¹⁾
AM IF						
	450H le	⟨Ĉ⟩	IC 7101 36 + 100nF	5111	5	max.
MW	450kHz connect pin 6 of IC 7101 (AM Osc.)	f=±10kHz V _{RF} = 0.5mV (as low as possible)	C 7101 40 + 100nF see contact 2) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5112		Hammin f _o minimin symmetric
AM AFC MW	with 3.3k to Vcc	continuous wave		5114	2>	0 ± 2 mV DC
AM RF ³⁾		1				•
MW ⁴⁾	1494kHz	$\langle B \rangle$	1494kHz	2106		
FM/MW/LW- and FM/MW-version (9kHz grid) 531 - 1602kHz	558kHz	X	558kHz	5102		
LW	198kHz	$\rceil \left(\begin{array}{c} \end{array} \right) \mid$	198kHz	5103	5	max.
MW	1500kHz	$f = \pm 30 \text{kHz}$	1500kHz	2106]	name for symmetric
FM/AM-version, 10kHz grid 530 - 1700kHz	560kHz	V _{RF} as low as possible	560kHz	5102	Particular to the state of the	,

Use Service Testprogram. By selecting the TUNER TEST test frequencies will be stored as preset frequencies automatically.

SMD jumper
41.6
(not all items shown in schematic diagram)

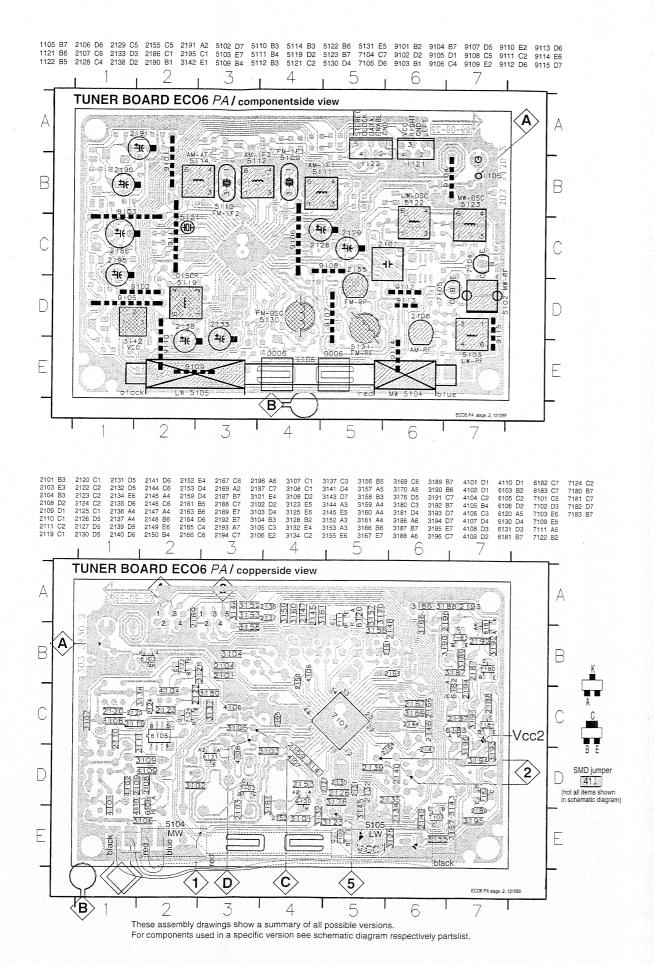
9113 D6 9114 E6 9115 D7

²⁾ RC network serves for damping the IF-filter while adjusting the other one. 1) If sensitivity of frequency counter is too low adjust to max. channel separation (input signal: stereo left 90% + 9%, adjust output on right channel to minimum)

³⁾ For AM RF adjustments the original frame antenna has to be used!

⁴⁾ MW has to be aligned before LW.

TUNER BOARD ECO6 - LAYOUT DIAGRAM 8-2



TUNER ADJUSTMENT TABLE (ECO6 FM/MW- and FM/MW/LW - versions with AM-frame aerial)

Waverange	Input frequency	Input	Tuned to	Adjust	Output	Scope/Voltmeter	
VARICAP ALIGNME	ENT						
FM			108MHz	5130		8V ±0.2V	
87.5 - 108MHz (65.81 - 74, 87.5 - 108MHz)			87.5MHz (65.81MHz)	check		4.3V ±0.5V (1.2V ±0.5V)	
MW			1700kHz	5123		8V ±0.2V	
FM/AM-version, 10kHz grid 530 - 1700kHz			530kHz	check		1.1V ±0.4V	
FM/MW-version, 9kHz grid			1602kHz	5123		6.9V ±0.2V	
531 - 1602kHz			531kHz	check	1	1.1V ±0.4V	
LW			279kHz	5122		8V ±0.2V	
153 - 279kHz			153kHz	check		1.1V ±0.4V	
MW FM/MW/LW- version, 9kHz grid			1602kHz	5123		8V ±0.2V	
531 - 1602kHz			531kHz	check		1.1V ±0.4V	
FM IF							
FM	10.7MHz, 45mV continuous wave		shortcircuit to block AFC = 2141	5119	2	0 ± 3 mV DC	
FM RF							
FM 87.5 - 108MHz	108MHz	A	108MHz	2155		MAX	
(65.81 - 74, 87.5 - 108MHz)	87.5MHz (65.81MHz)	mod=1kHz f=±22.5kHz	87.5MHz (65.81MHz)	5131		WI VX	
vco					-		
FM	98MHz, 1mV continuous wave	(A)	98MHz	3142	3	152kHz ±1kHz ¹⁾	
AM IF							
MW	450kHz	<u>(C)</u>	IC 7101 36 1 100nF	5111	5	whether to symmetric	
	connect pin 6 of IC 7101 (AM Osc.)	f=±10kHz V _{RF} = 0.5mV (as low as possible)	IC 7101 40 1 100nF see remark 2) 2 1	5112			
AM AFC	with 3.3k to Vcc	(c)			^		
иw		continuous wave		5114	2	0 ± 2 mV DC	
AM RF ³⁾							
MW ⁴⁾ M/MW/LW- and FM/MW-version	1494kHz	(B)	1494kHz	2106			
(9kHz grid) 531 - 1602kHz	558kHz	X	558kHz	5102			
-W	198kHz	$ (\) $	198kHz	5103	(5)	max.	
иw	1500kHz	f = ±30kHz	1500kHz	2106		ununun \	
M/AM-version, 10kHz grid 530 - 1700kHz	560kHz	V _{RF} as low as possible	560kHz	5102		f _o """"""" symmetric	

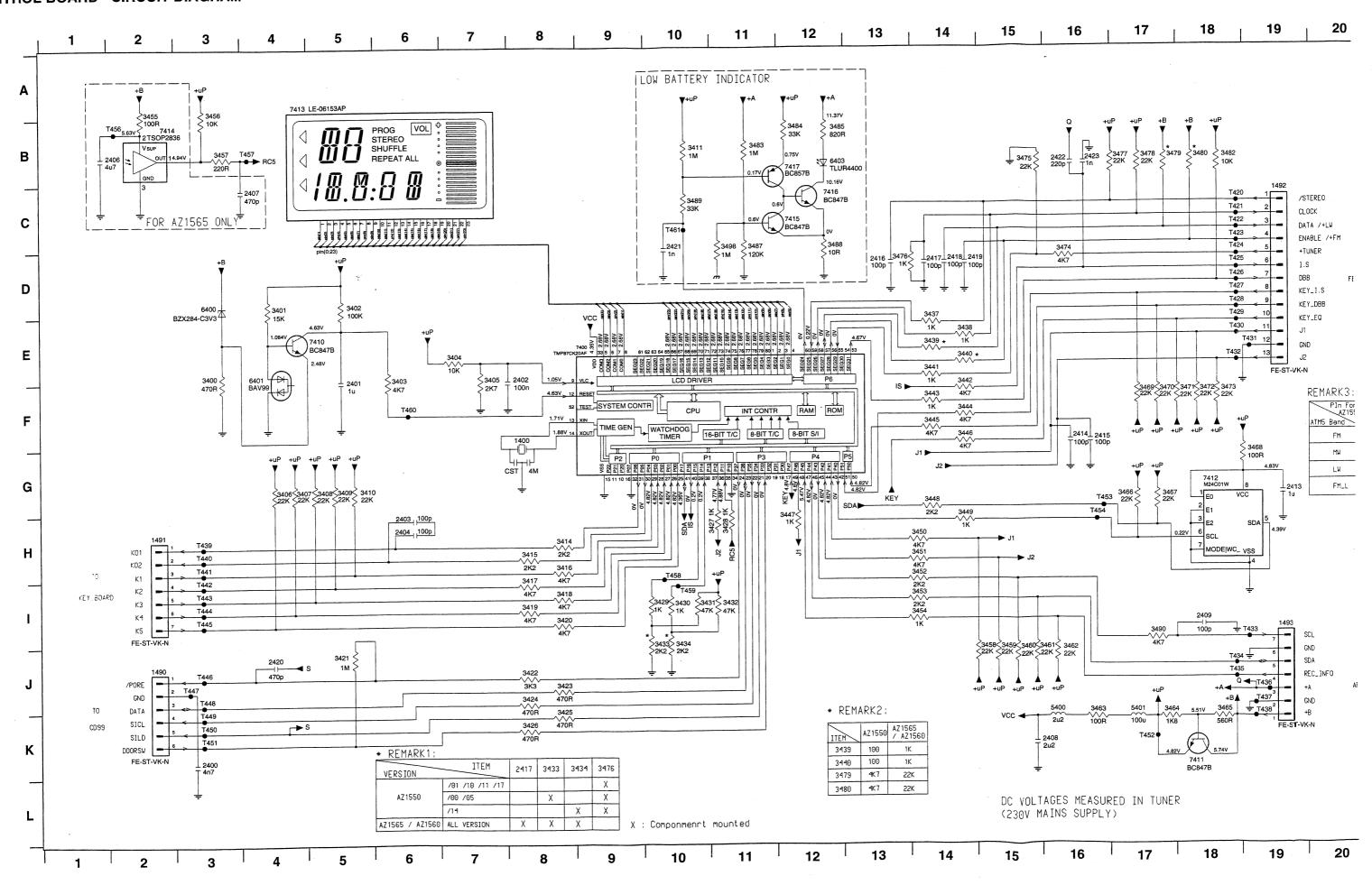
Use Service Testprogram. By selecting the TUNER TEST test frequencies will be stored as preset frequencies automatically.

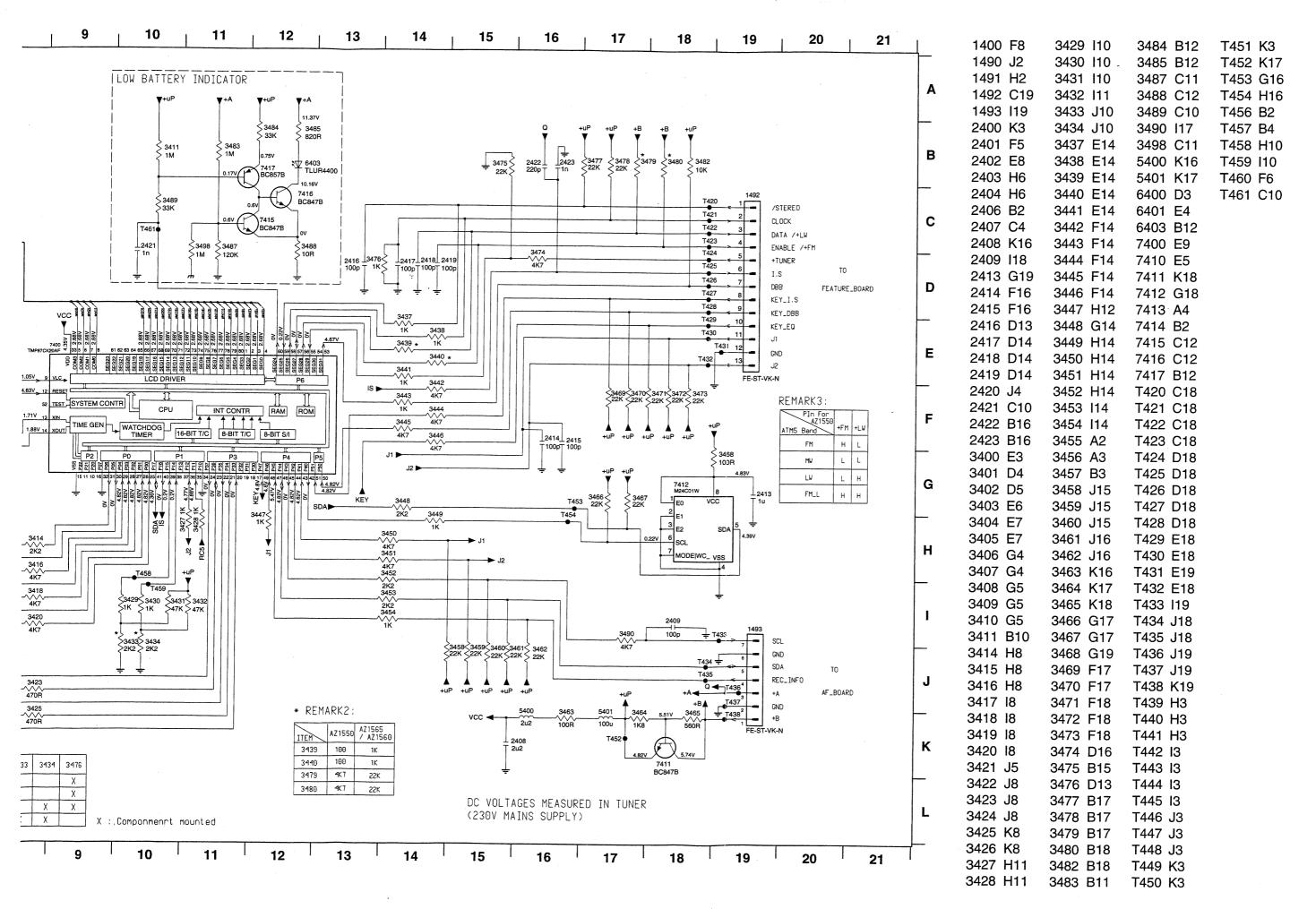
If sensitivity of frequency counter is too low adjust to max, channel separation (input signal: stereo left 90% + 9%, adjust output on right channel to minimum)

²⁾ RC network serves for damping the IF-filter while adjusting the other one.

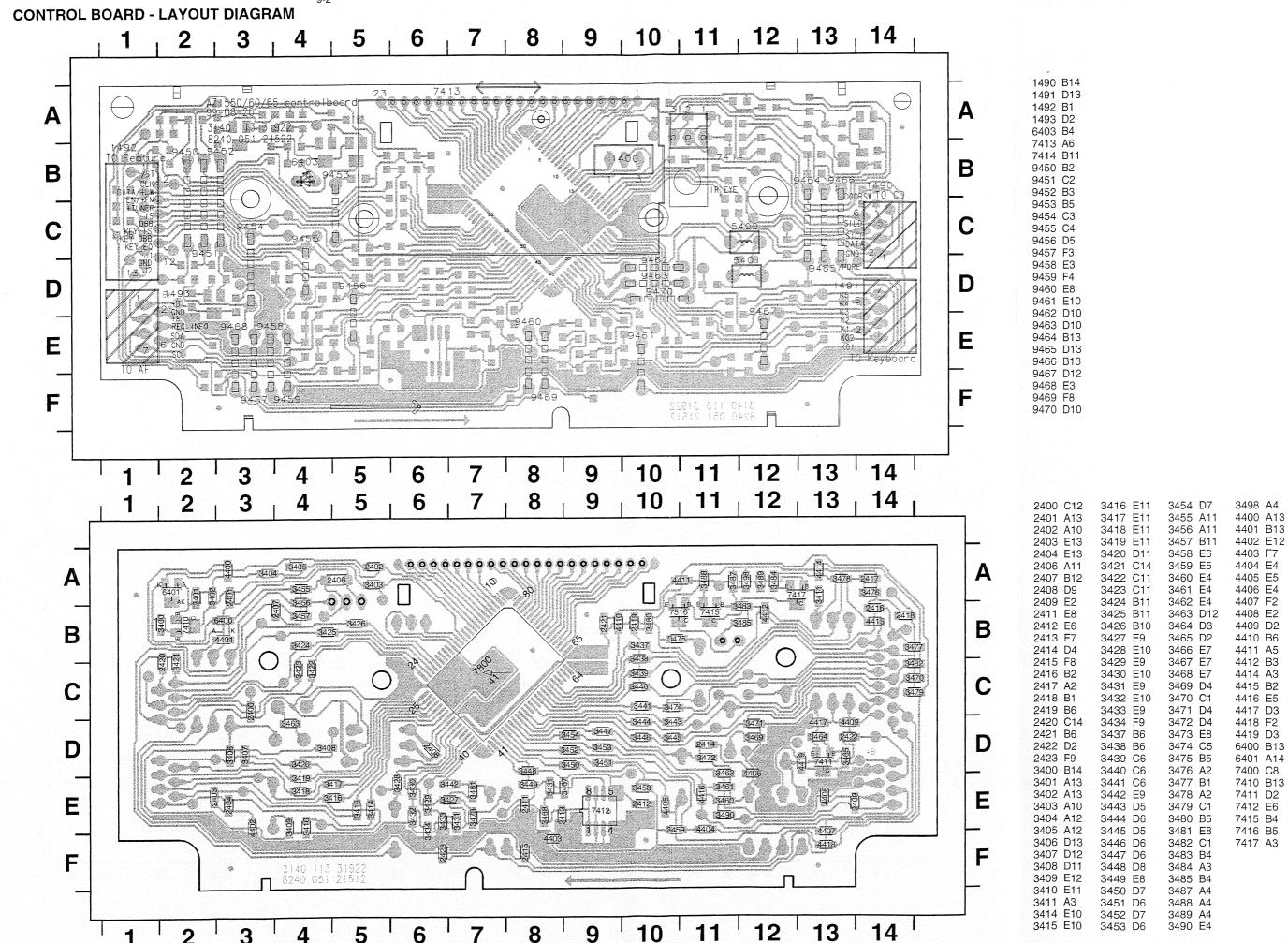
³⁾ For AM RF adjustments the original frame antenna has to be used!

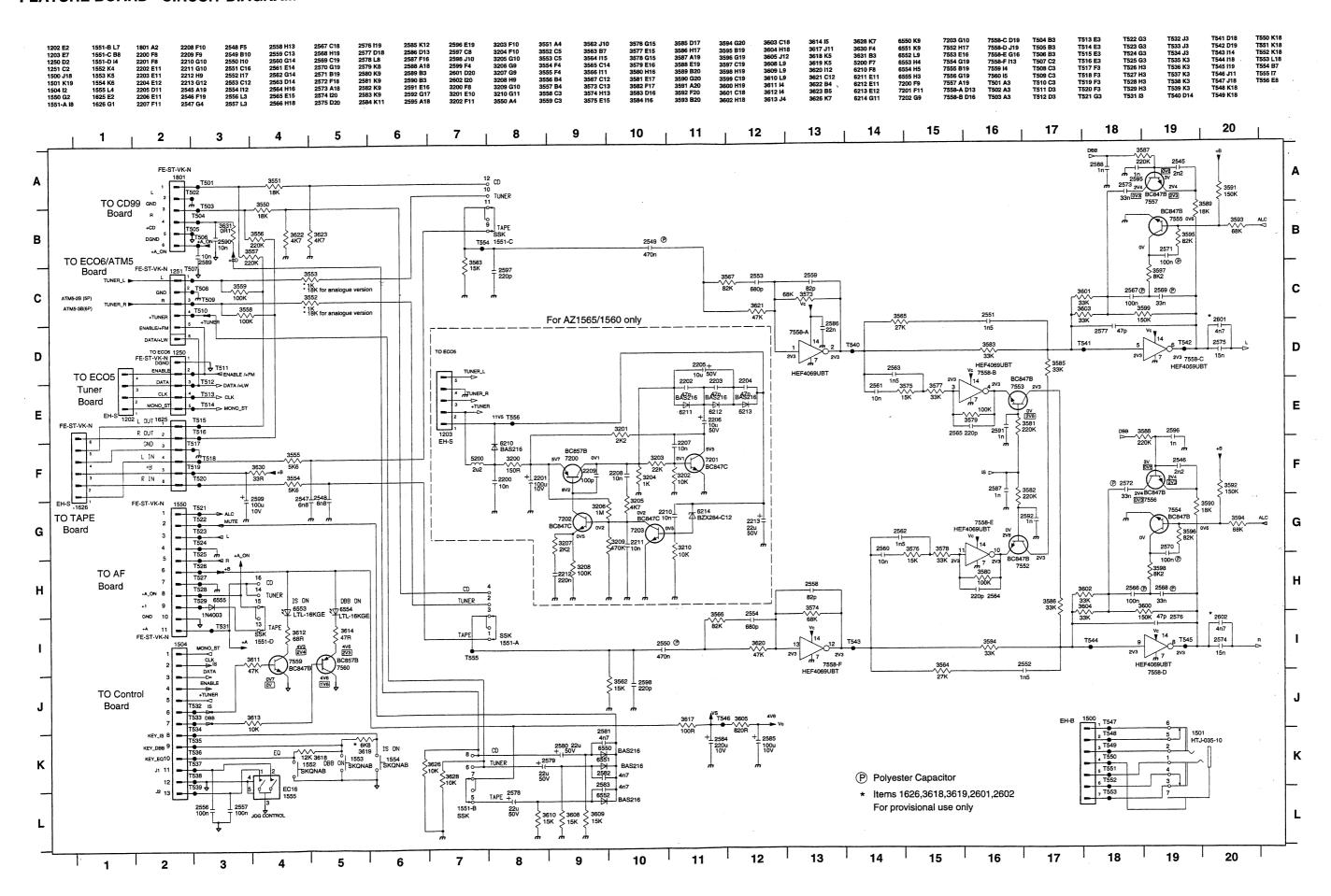
⁴⁾ MW has to be aligned before LW.

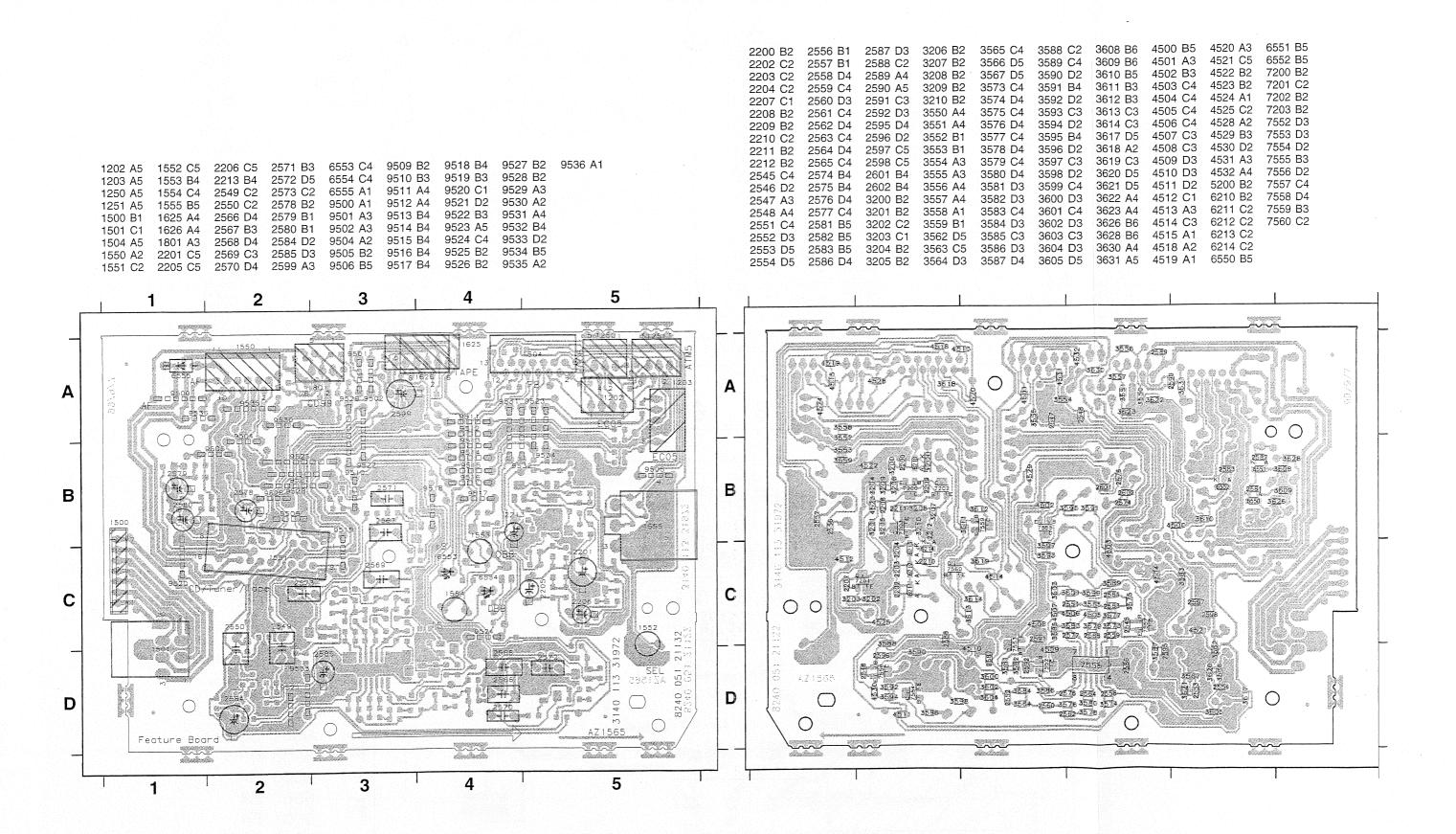


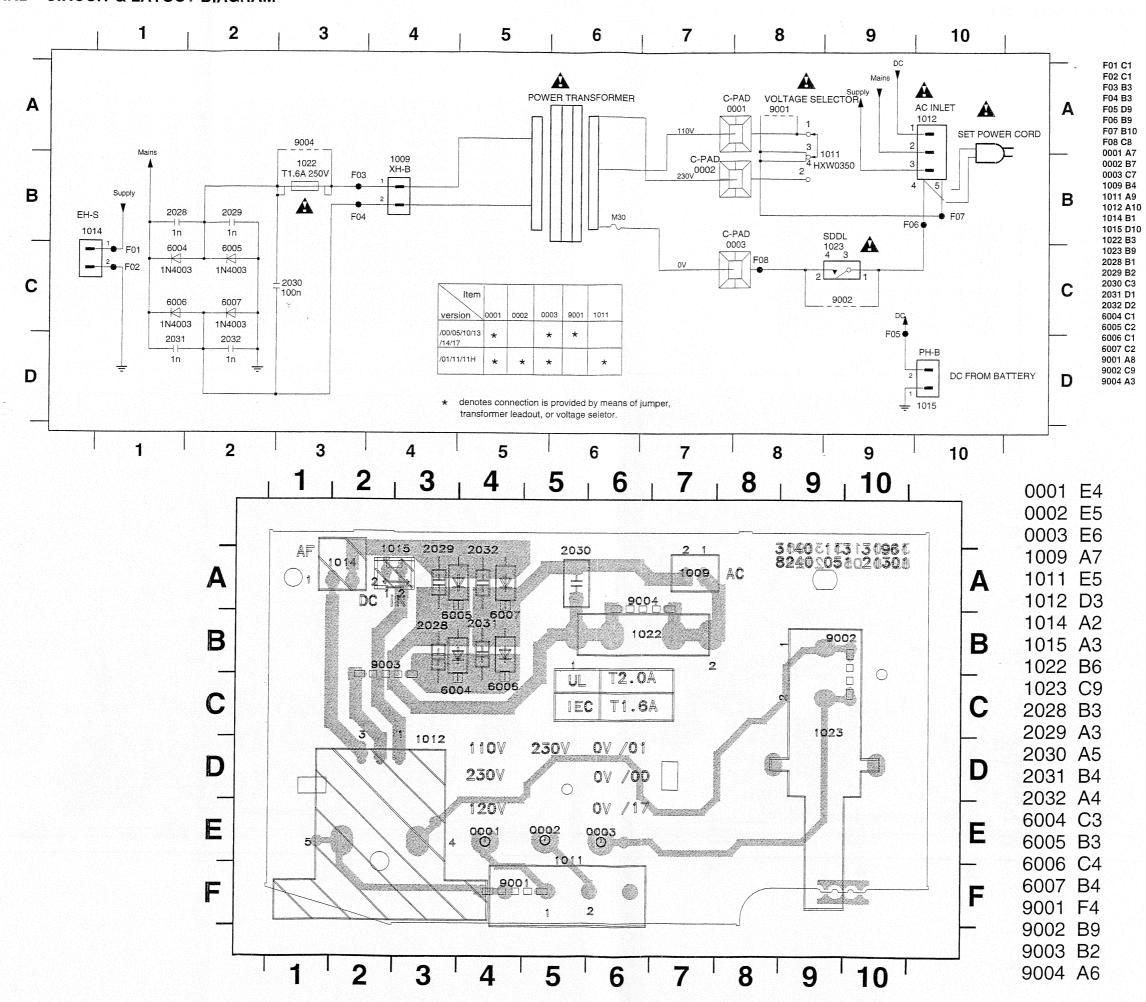


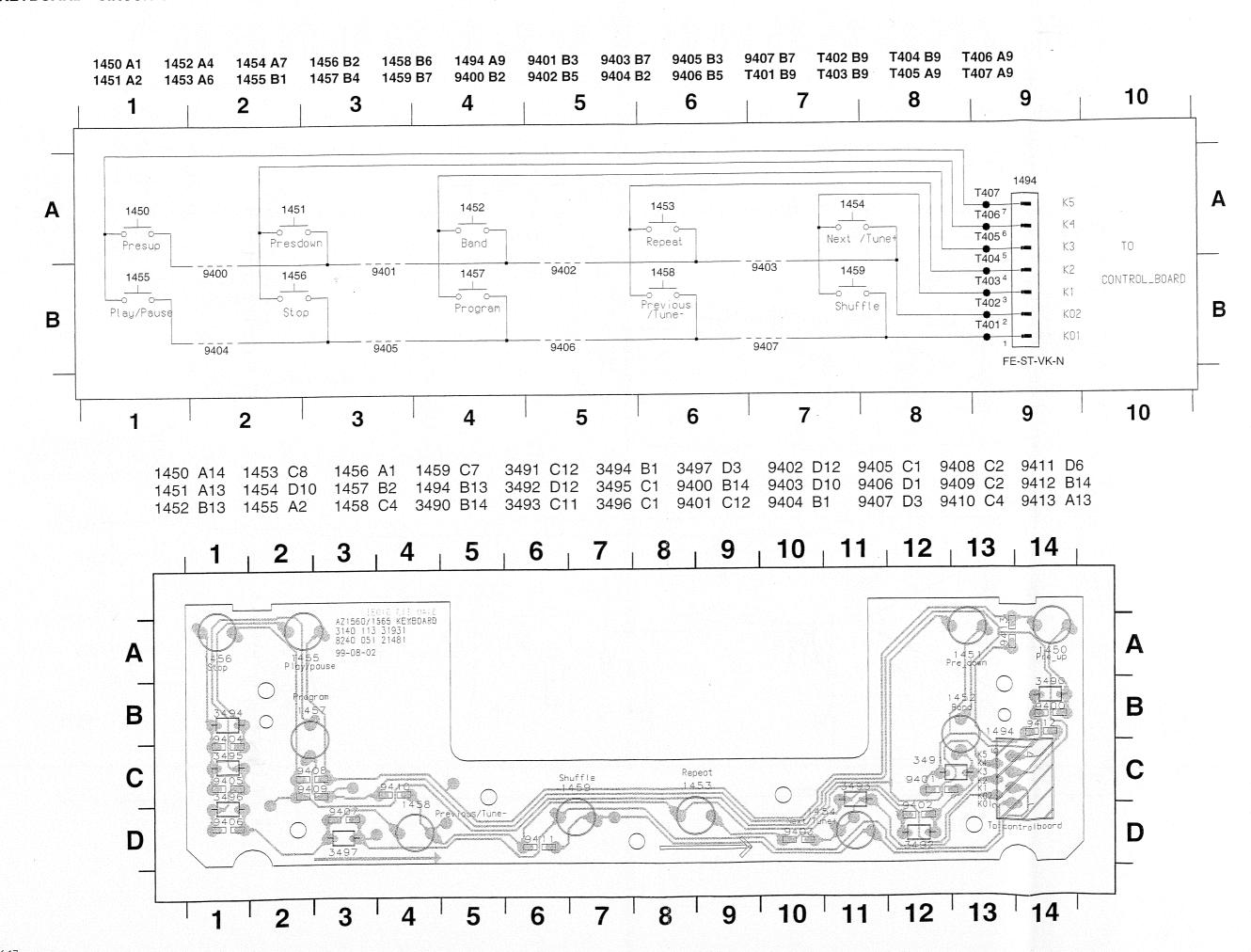




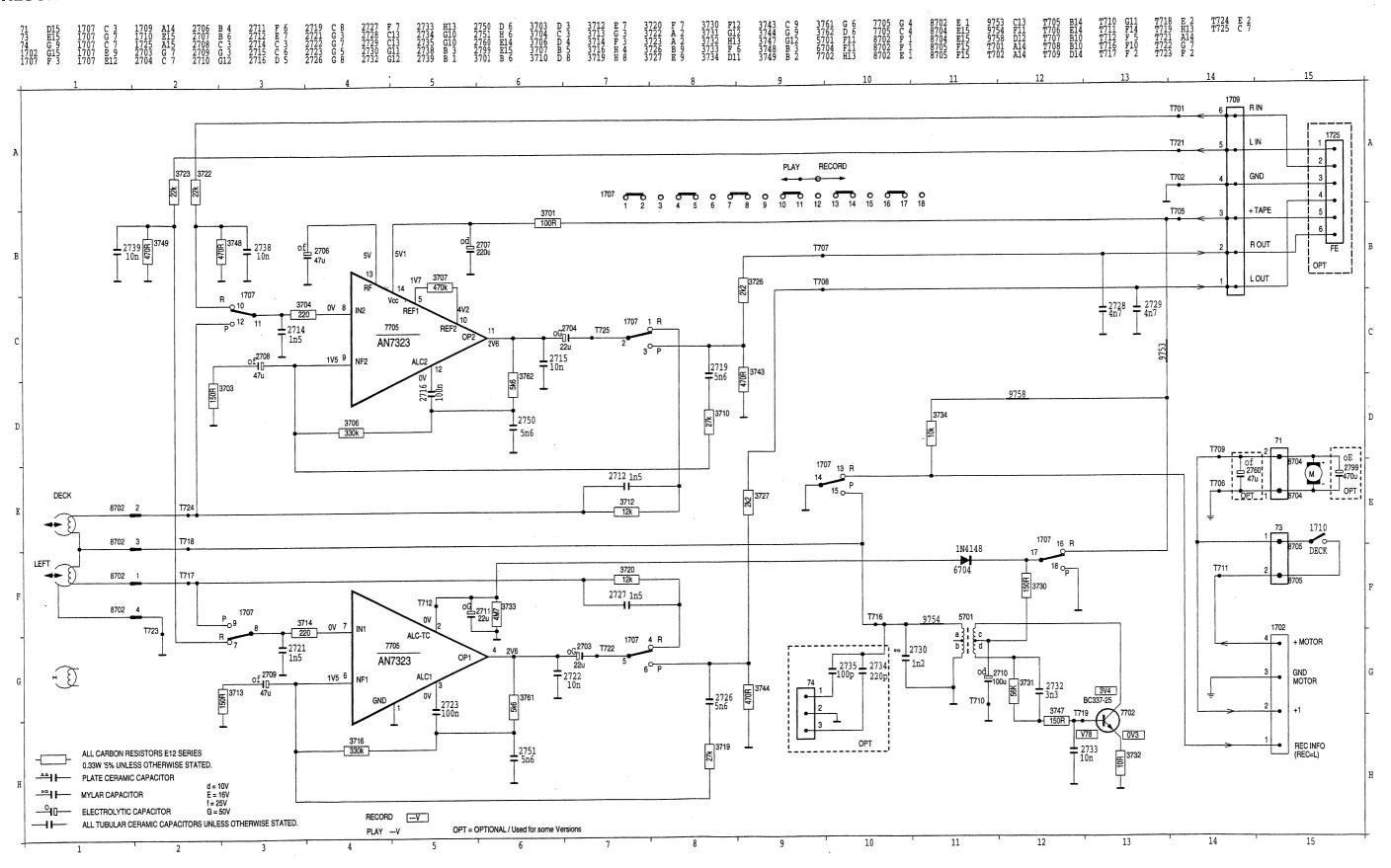


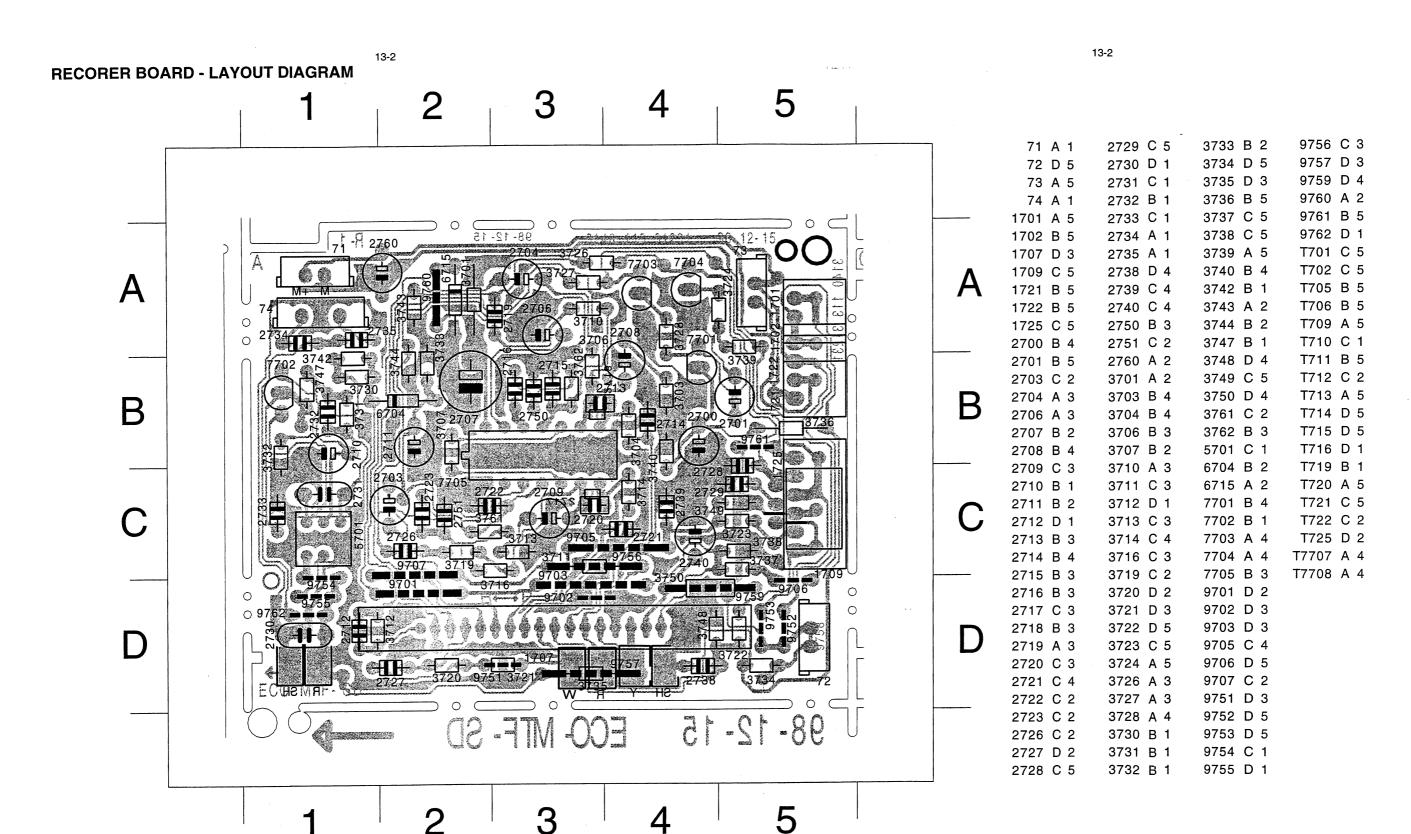






RECORDER BOARD - CIRCUIT DIAGRAM



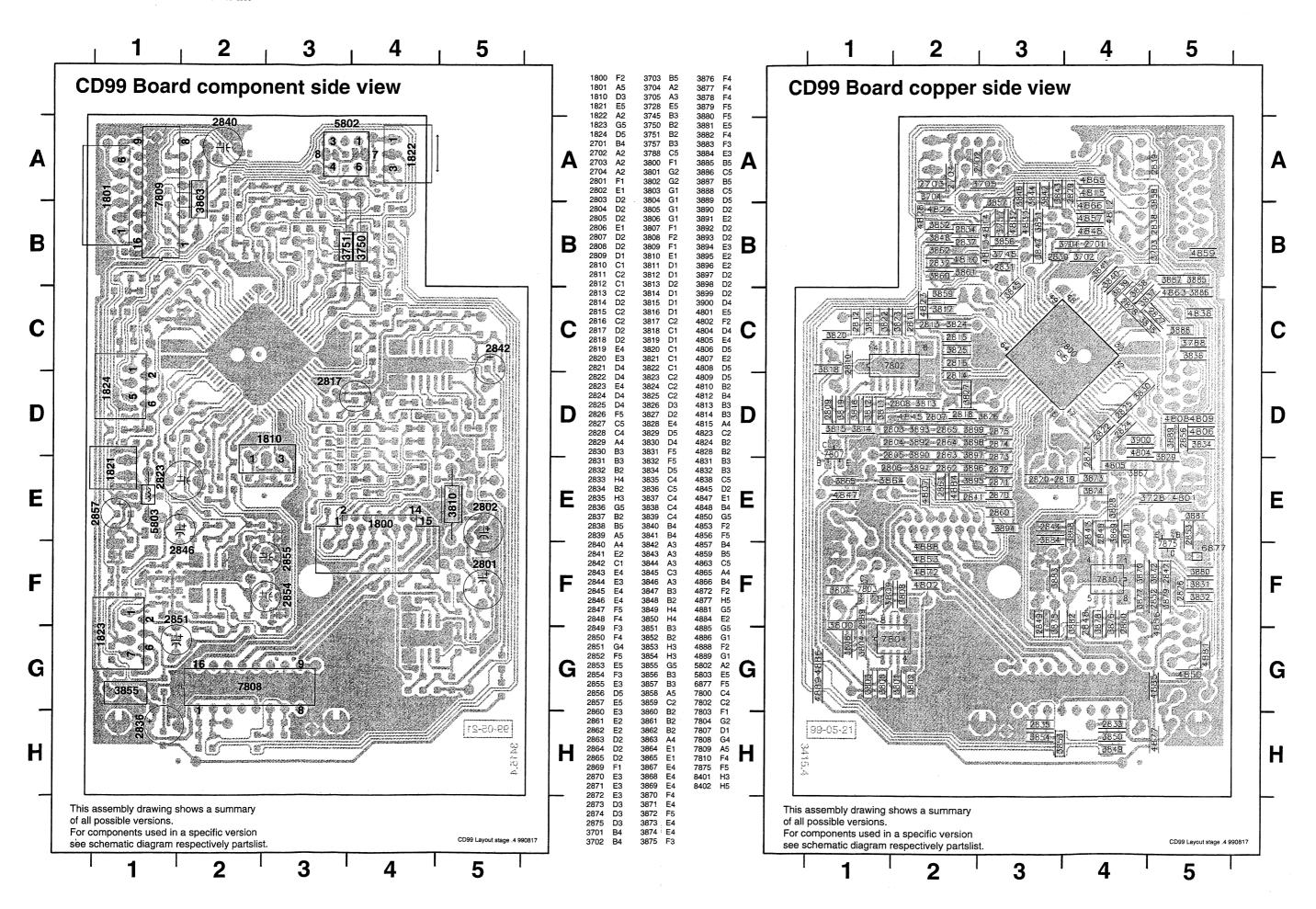


CASSETTE ADJUSTMENT

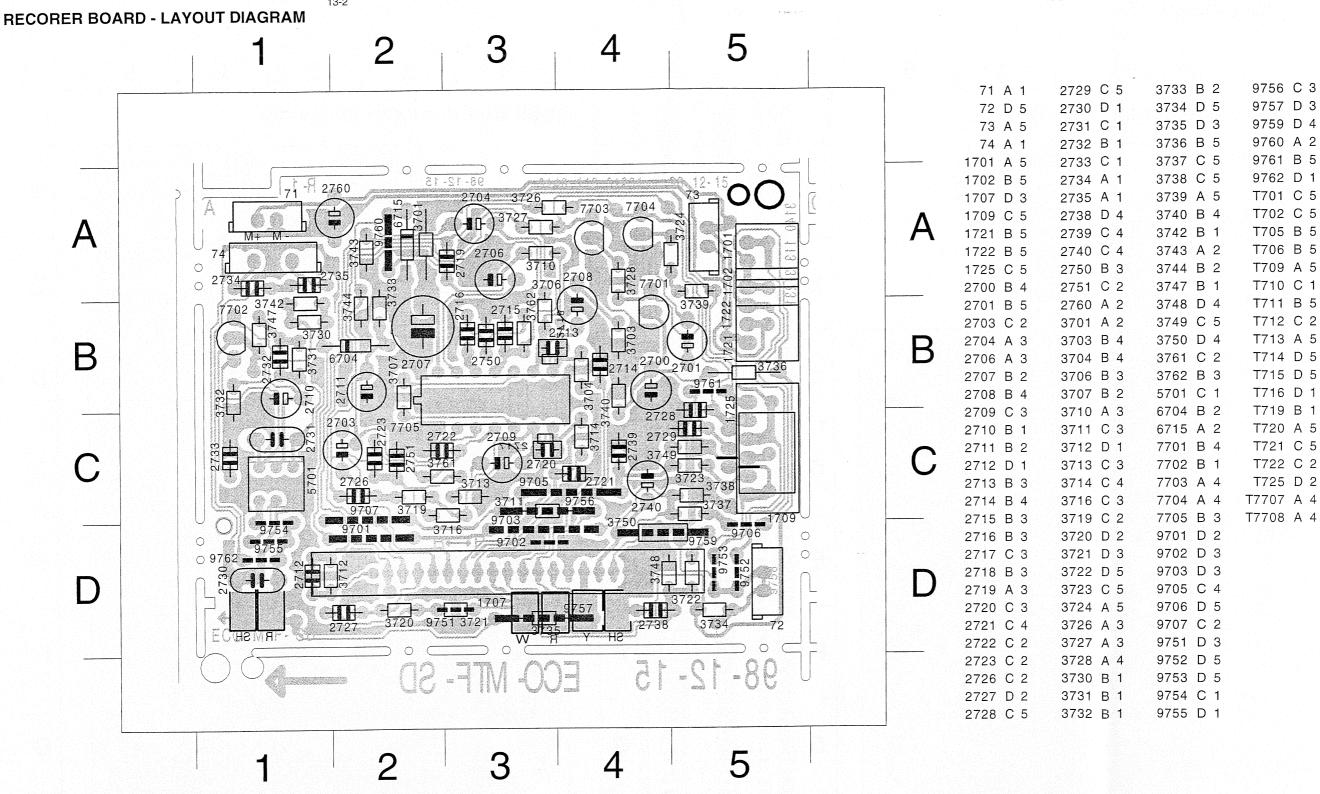
Adjustment	Cassette	SK	Deck 1	Measure on	Read on	Adjust with	Adjust to
Azimuth	10 kHz SBC420*	Tape	Play	H/P Jack	mV meter	Left hand Screw R/P head	max.
Motor Speed	3150 kHz SBC420*	Tape	Play	H/P Jack	Wow and flutter meter	Preset in motor	**a

^{*} SBC420 : 4822 397 30071

^{**}a The maximum permissible speed deviation is \pm 3%. Morever, the wow and flutter value can be read.





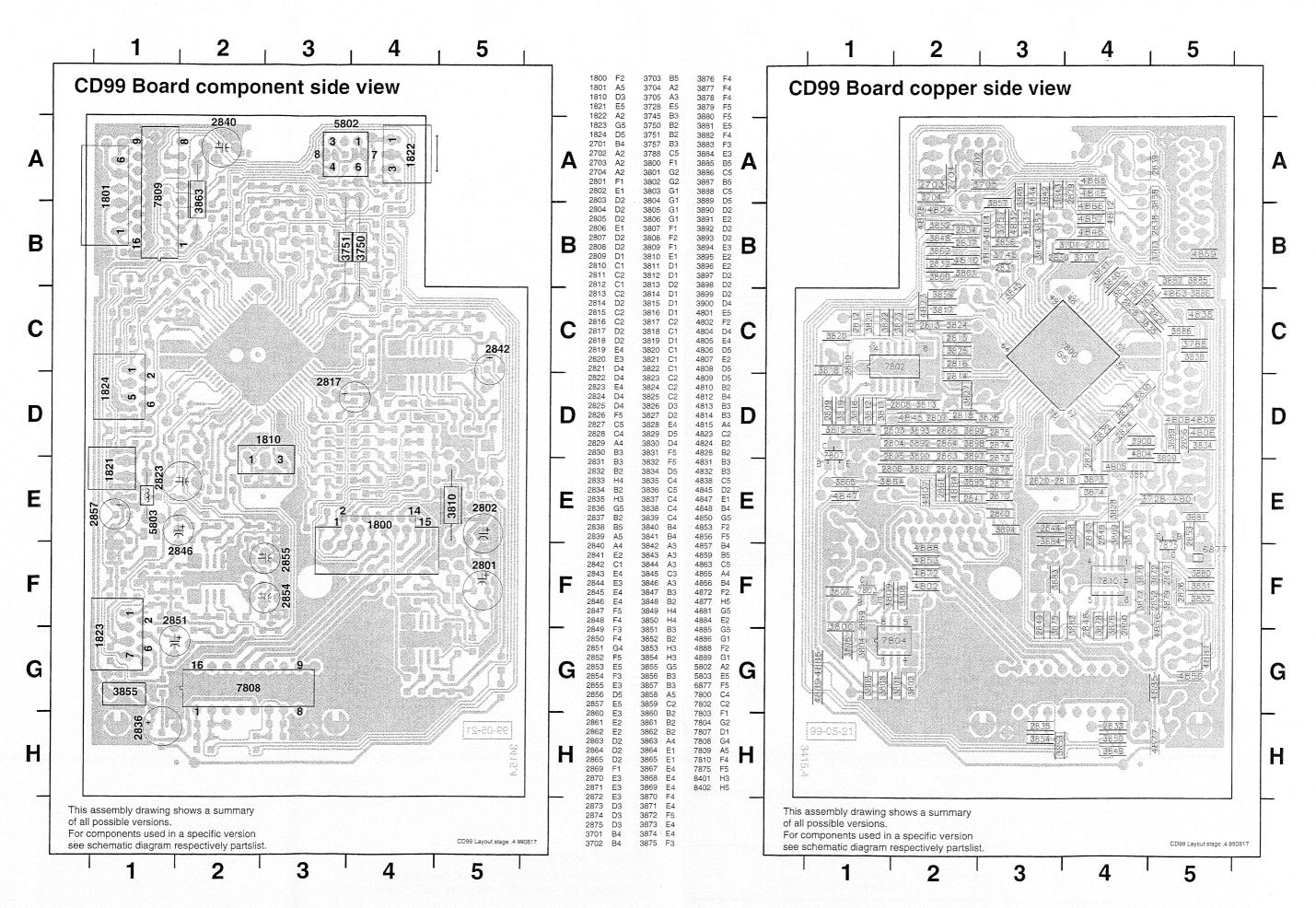


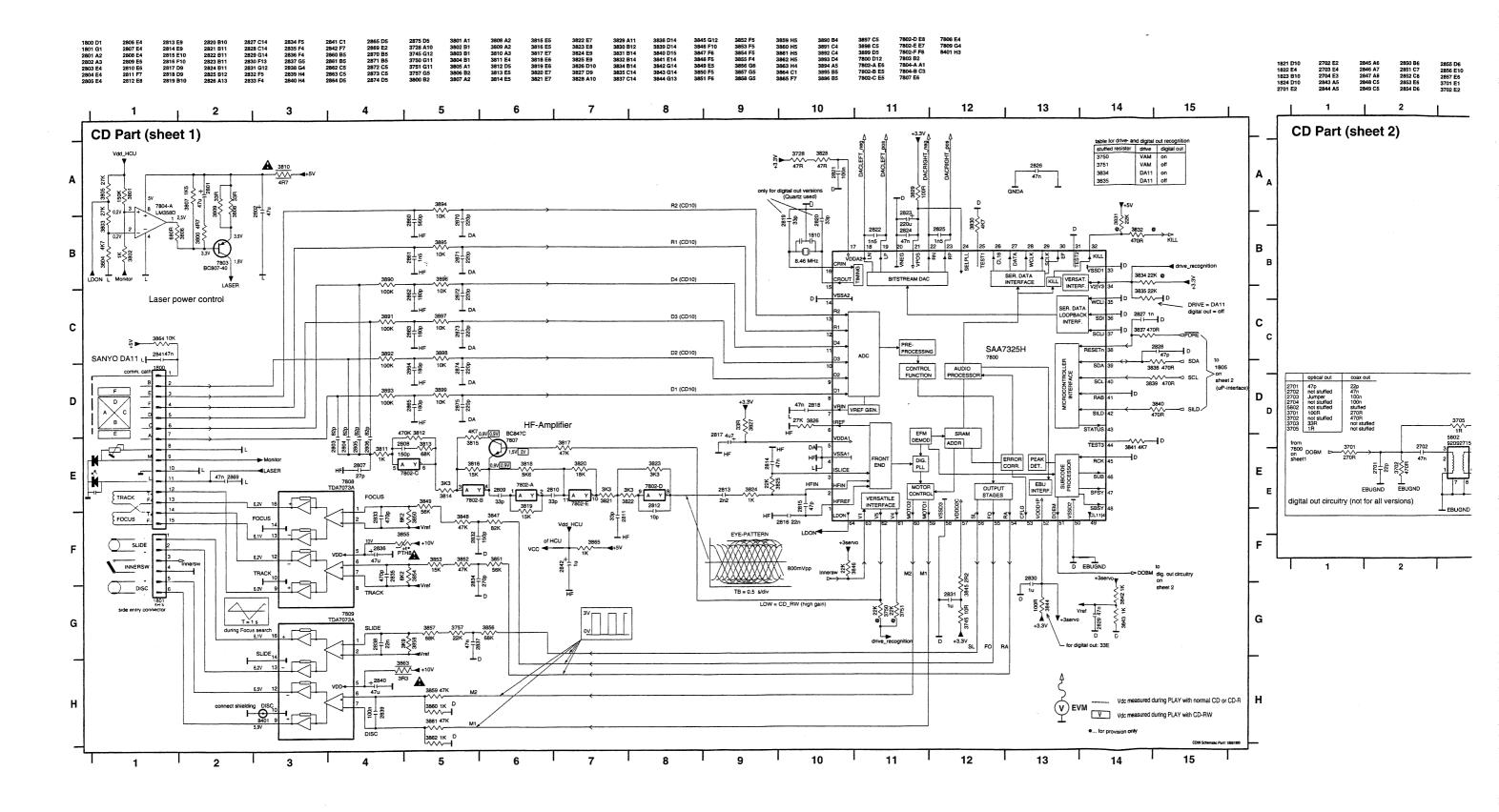
CASSETTE ADJUSTMENT

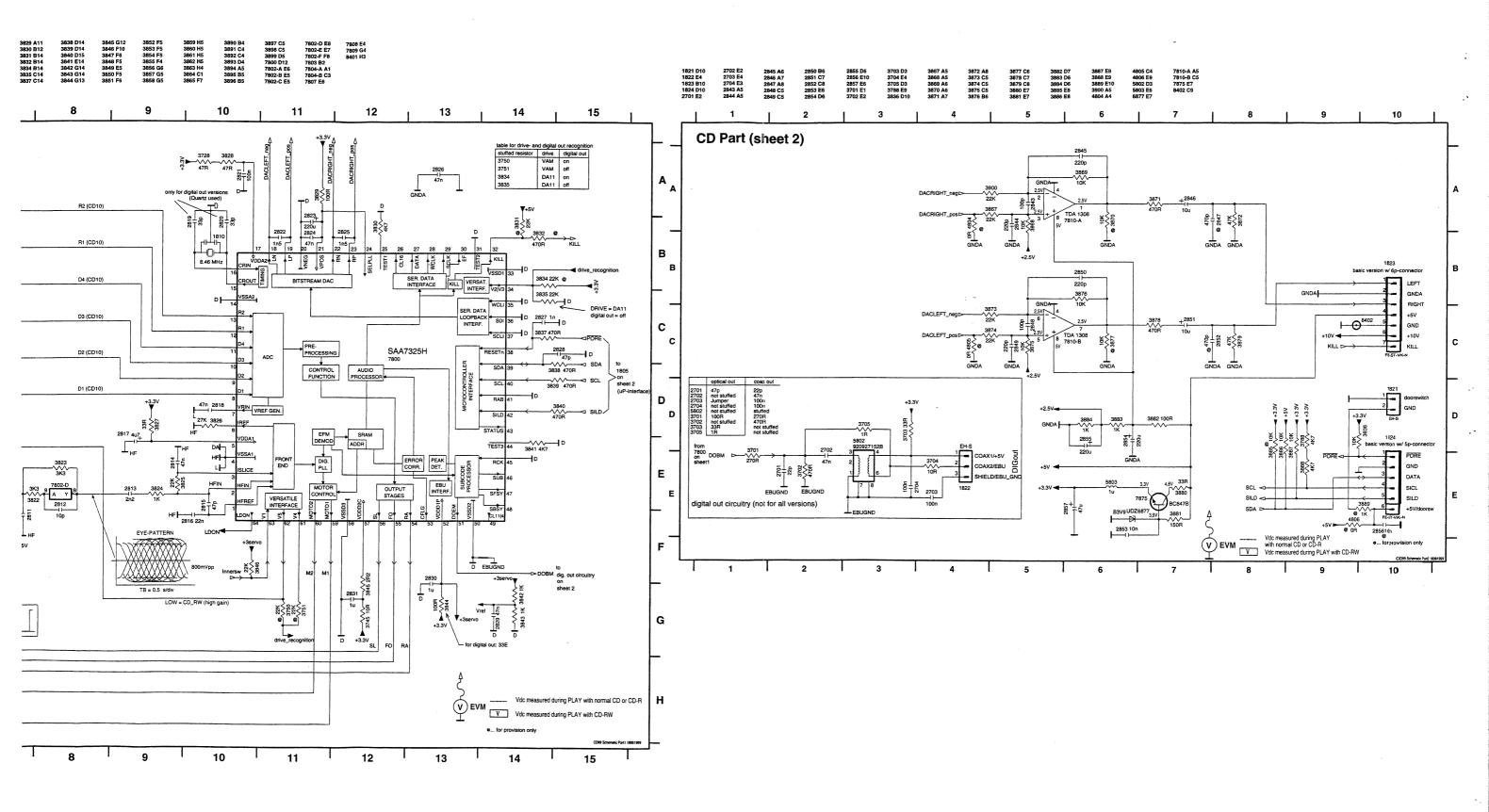
Adjustment	Cassette	SK	Deck 1	Measure on	Read on	Adjust with	Adjust to
Azimuth	10 kHz SBC420*	Tape	Play	H/P Jack	mV meter	Left hand Screw R/P head	max.
Motor Speed	3150 kHz SBC420*	Tape	Play	H/P Jack	Wow and flutter meter	Preset in motor	**a

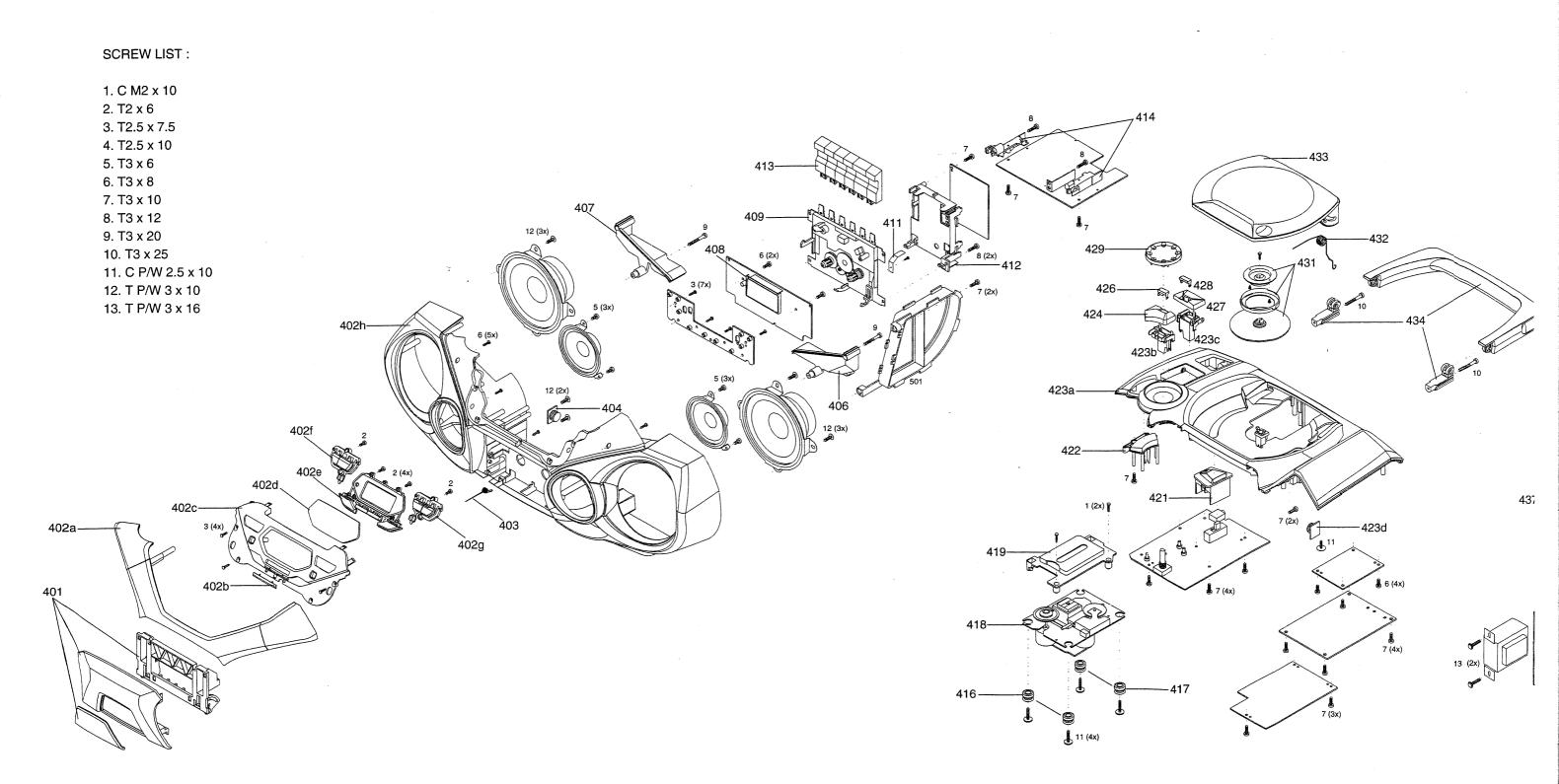
^{*} SBC420: 4822 397 30071

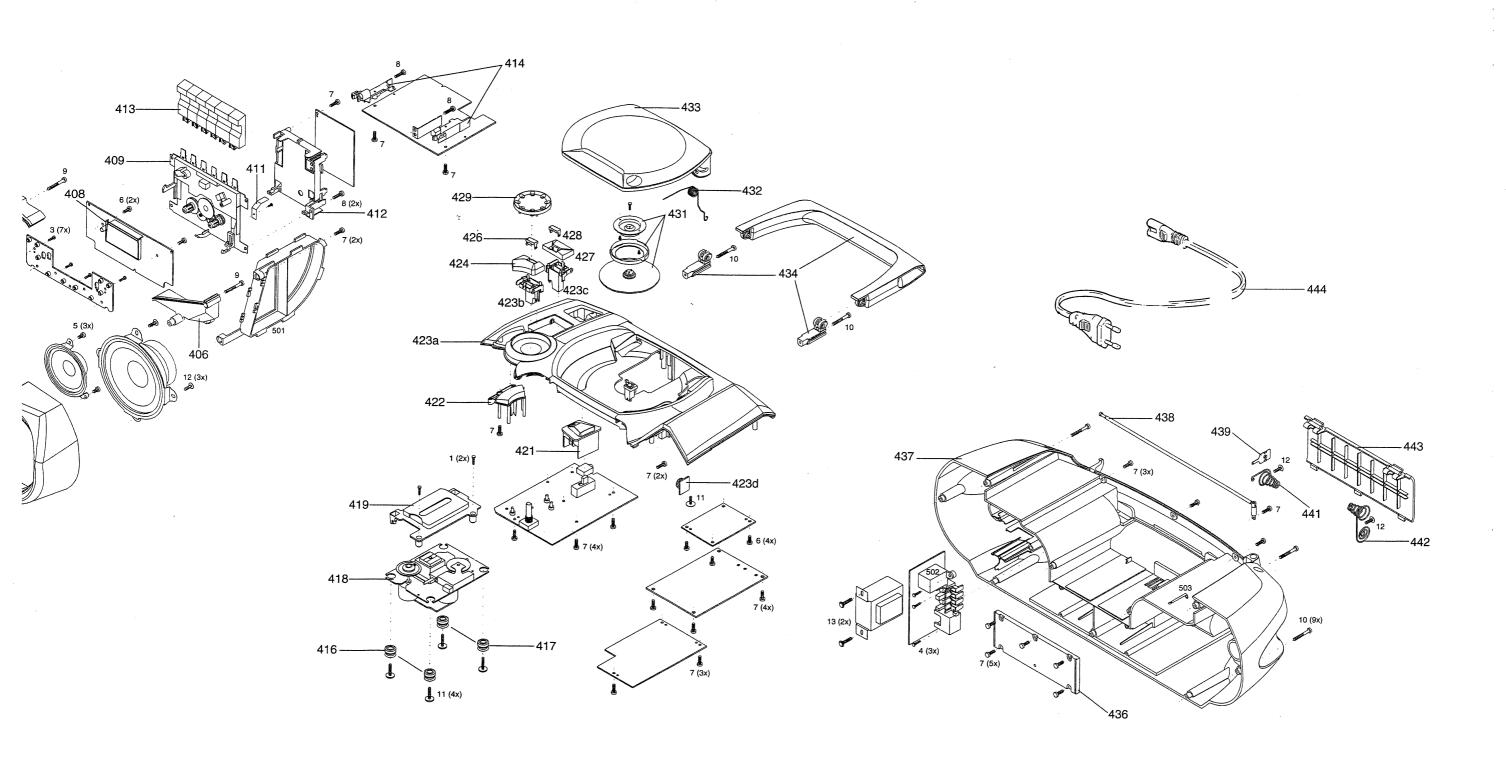
^{**}a The maximum permissible speed deviation is ± 3%. Morever, the wow and flutter value can be read.

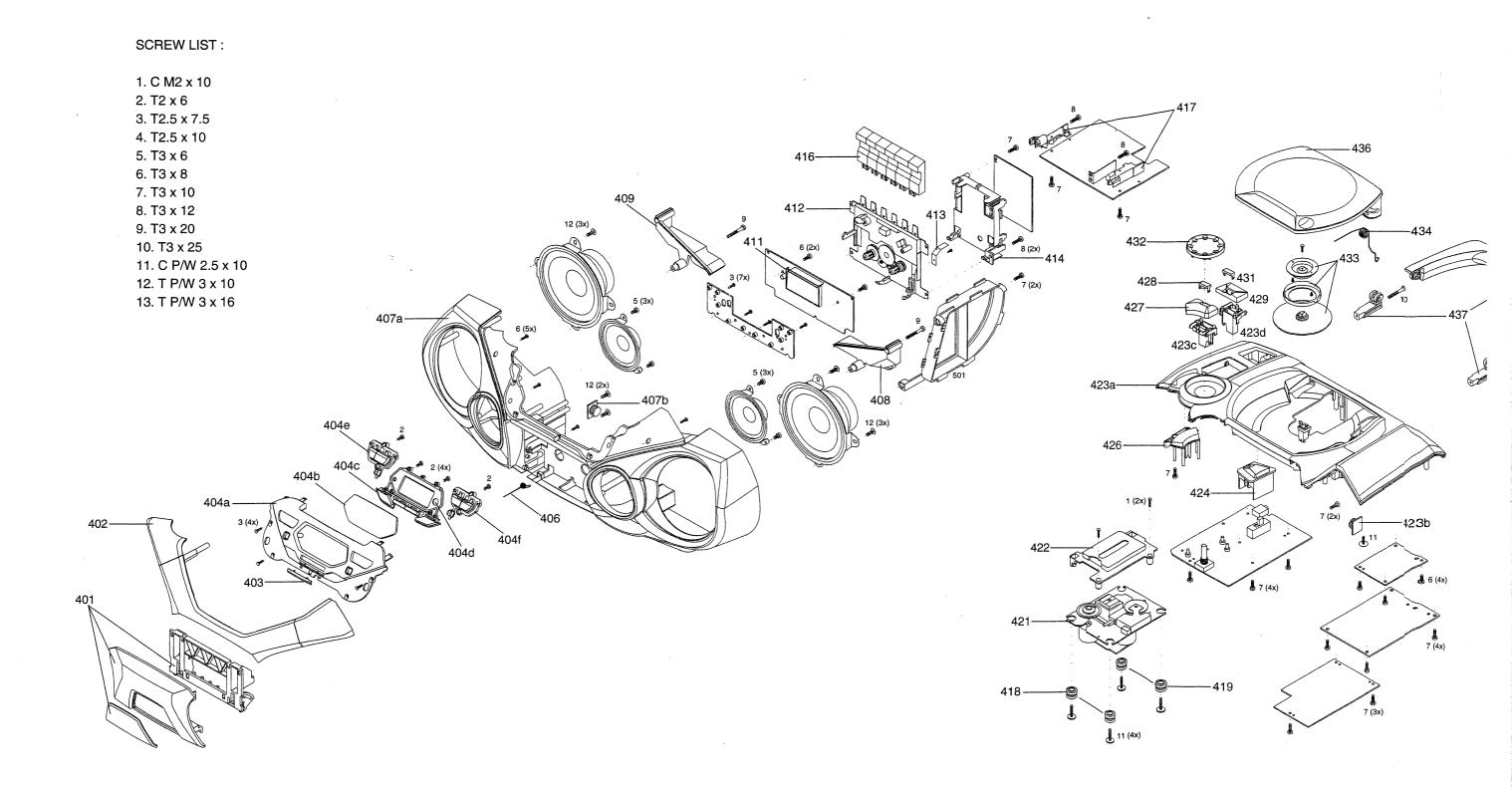


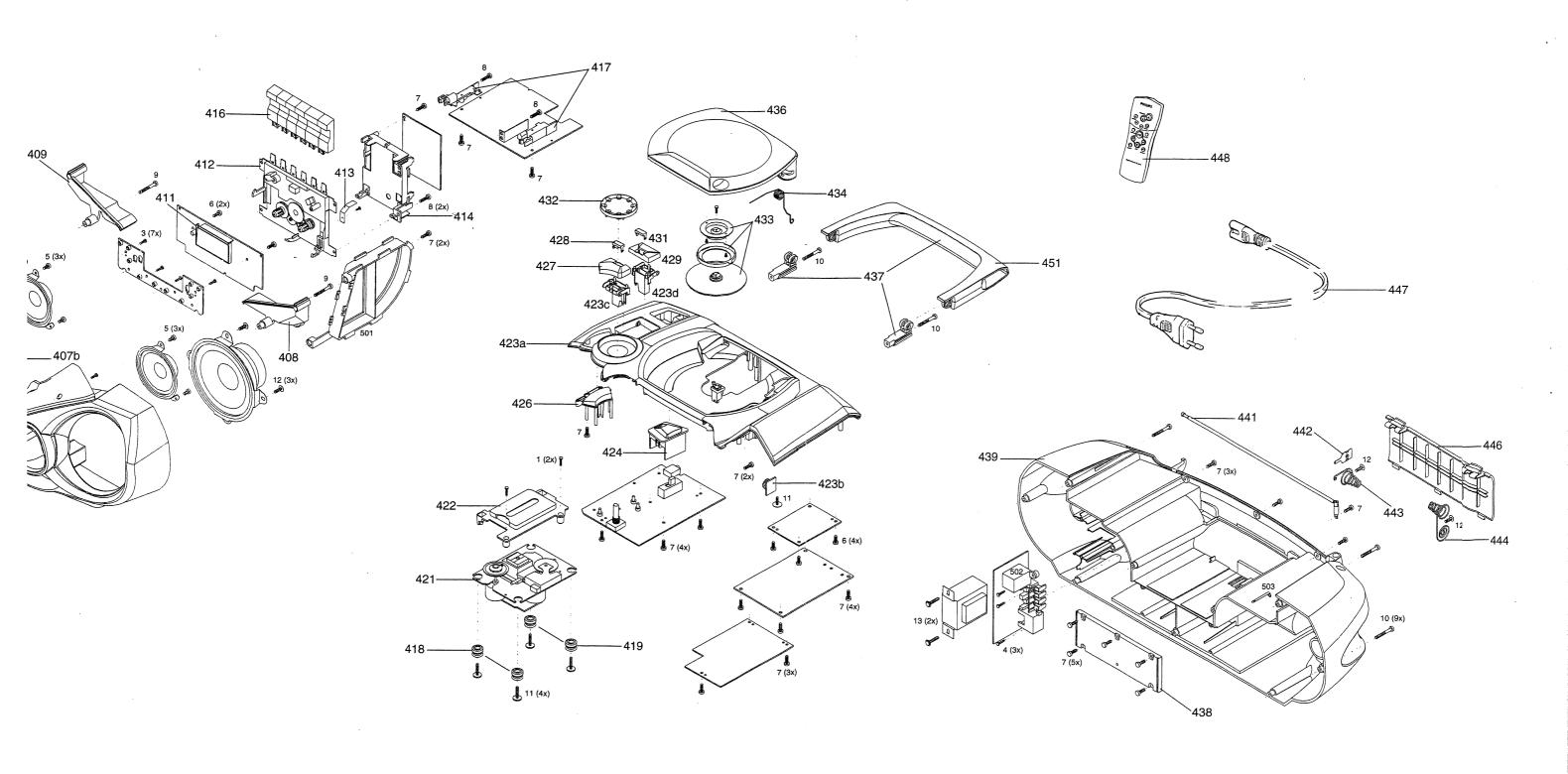












		16-1
FI FCTRICAL	PARTSLIST - CD99	DA11
	I MILIOPIOI - OPOS	

- CAPA	CITORS -		- CAPA	CITORS -		-	- RESIS	TORS -		- RESIS	STORS -	
0001	400010441751	47. F 200/ FOV	2055	482212411912	220µF 20% 6,3V		3826	482205120273	27K 5% 0,1W	3883	482205110102	1K 2% 0,25W
2801	482212441751	47μF 20% 50V	2855		47μF 4V 20%		3827	482205120273	33R 5% 0,1W	3884	482205110102	1K 2% 0,25W
2802	482212441751	47μF 20% 50V	2857	482212412362	•					3886	482211710833	10K 1% 0,1W
2803	482212613695	82pF 1% NP0 63V	2860	532211680853	560pF 5% NP0 63V		3828	482205120479	47R 5% 0,1W		482211710833	10K 1% 0,1W
2804	482212613695	82pF 1% NP0 63V	2861	532212231865	1,5nF 10% X7R 63V		3829	482205120101	100R 5% 0,1W	3887		
2805	482212613695	82pF 1% NP0 63V	2862	482212610326	180pF 5%NP0 63V		3830	482205120472	4K7 5% 0,1W	3888	482205120472	4K7 5% 0,1W
2806	482212613695	82pF 1% NP0 63V	2863	482212610326	180pF 5%NP0 63V		3835	482205120223	22K 5% 0,1W	3889	482205110102	1K 2% 0,25W
2807	482212613691	27pF 1% NP0 63V	2864	482212610326	180pF 5%NP0 63V		3836	482211710833	10K 1% 0,1W	3890	482211710837	100K 1% 0.1W
2808	532212233538	150pF 2% NP0 63V	2865	482212610326	180pF 5%NP0 63V		3837	482205120471	470R 5% 0,1W	3891	482211710837	100K 1% 0.1W
2809	482212613691	27pF 1% NP0 63V	2869	482212613751	47nF 10% X7R 63V		3838	482205120471	470R 5% 0,1W	3892	482211710837	100K 1% 0.1W
2810	482212613691	27pF 1% NP0 63V	2870	482212233575	220pF 5% NP0 63V		3839	482205120471	470R 5% 0,1W	3893	482211710837	100K 1% 0.1W
0011	532212232659	33pF 5% 50V	2871	482212233575	220pF 5% NP0 63V		3840	482205120471	470R 5% 0,1W	3894	482211710833	10K 1% 0,1W
2811	532212232448	10pF 5% NP0 63V	2872	482212233575	220pF 5% NP0 63V		3841	482205120471	4K7 5% 0,1W	3895	482211710833	10K 1% 0,1W
2812		•	2873	482212233575	220pF 5% NP0 63V		3842	482205110102	1K 2% 0,25W	3896	482211710833	10K 1% 0,1W
2813	482212233127	2,2nF 10% X7R 63V 47nF 10% X7R 63V	2874	482212233575	220pF 5% NP0 63V		3843	482205110102	1K 2% 0,25W	3897	482211710833	10K 1% 0,1W
2814	482212613751		2875	482212233575	220pF 5% NP0 63V		3844	482205120101	100R 5% 0,1W	3898	482211710833	10K 1% 0,1W
2 815	482212613692	47pF 1% NP0 63V	2075	40221223373	220pi 378 Ni 0 03V		3044	402203120101	10011 370 0,144	0000	402211710000	1010 170 0,111
2816	532212232654	22nF 10% X7R 63V					3845	482205120228	2R2 5% 0,1W	3899	482211710833	10K 1% 0,1W
2817	482212440769	4,7µF 20% 100V					3846	482205120223	22K 5% 0,1W	3900	482205120223	22K 5% 0,1W
2818	482212613751	47nF 10% X7R 63V					3847	482211711149	82K 1% 0,1W	4801	482205120008	Jumper
2821	482212614585	100nF 10% X7R 50V					3848	482211710834	47K 1% 0,1W	4802	482205120008	Jumper
2822	482212613344	1,5nF 5% 63V	- RESIS	STORS -		-	3849	482211711148	56K 1% 0,1W	4807	482205120008	Jumper
2022	402212010011	1,0111 070 001				-						
2 823	482212442383	220μF 20% 4V	3728	482205120479	47R 5% 0,1W		3850	482205120822	8K2 5% 0,1W	4808	482205120008	Jumper
2824	482212613751	47nF 10% X7R 63V	3745	482205120109	10R 5% 0,1W		3851	482211711148	56K 1% 0,1W	4809	482205120008	Jumper
2825	482212613344	1,5nF 5% 63V	3757	482205120223	22K 5% 0,1W		3852	482211710834	47K 1% 0,1W	4810	482205120008	Jumper
2 826	482212613751	47nF 10% X7R 63V	3788	482205120472	4K7 5% 0,1W		3853	482211683933	15K 1% 0,1W	4812	482205120008	Jumper
28 27	532212231647	1nF 10% X7R 63V	3800	482205120478	4R70 5% 0,1W		3854	482205120822	8K2 5% 0,1W	4813	482205120008	Jumper
2828	482212613692	47pF 1% NP0 63V	3801	482205120154	150K 5% 0,1W		3855	482211640227	4R6 25% 12V	4814	482205120008	Jumper
	482212613751	47nF 10% X7R 63V	3802	482205110102	1K 2% 0,25W		3856	482205120683	68K 5% 0,1W	4815	482205120008	Jumper
2829	482212614043	1µF +80-20% Y5V 16V	3803	482205120273	27K 5% 0,1W		3857	482205120683	68K 5% 0,1W	4823	482205120008	Jumper
2830 2831	482212614043	1μF +80-20% Y5V 16V	3804	482205120472	4K7 5% 0,1W		3858	482205120392	3K9 5% 0,1W	4824	482205120008	Jumper
2832	532212233538	150pF 2% NP0 63V	3805	482205120273	27K 5% 0,1W		3859	482211710834	47K 1% 0,1W	4828	482205120008	Jumper
		•								4004	40000-40000	
2833	532212232268	470pF 10% 50V	3806	482211710361	680R 1% 0,1W		3860	482205110102	1K 2% 0,25W	4831	482205120008	Jumper
2834	482212233216	270pF 5% NP0 50V	3807	482211711139	1K5 1% 0,1W		3861	482211710834	47K 1% 0,1W	4832	482205120008	Jumper
2835	532212232268	470pF 10% 50V	3808	482205120339	33R 5% 0,1W		3862	482205110102	1K 2% 0,25W	4838	482205120008	Jumper
2836	482212441751	47µF 20% 50V	3809	482205120339	33R 5% 0,1W		3863	482205210338	3R3 5% 0,33W	4845	482205120008	Jumper
2837	482212613751	47nF 10% X7R 63V	3810	482205210478	4R7 5% 0,33W		3864	482211710833	10K 1% 0,1W	4847	482205120008	Jumper
2838	532212232654	22nF 10% X7R 63V	3811	482205110102	1K 2% 0,25W		3865	482205110102	1K 2% 0,25W	4848	482205120008	Jumper
2839	482212614585	100nF 10% X7R 50V	3812	482205120474	470K 5% 0,1W		3867	482205120223	22K 5% 0,1W	4850	482205120008	Jumper
2840	482212441751	47μF 20% 50V	3813	482205120683	68K 5% 0,1W		3868	482211710833	10K 1% 0,1W	4853	482205120008	Jumper
2841	482212613751	47nF 10% X7R 63V	3814	482205120332	3K3 5% 0,1W		3869	482211710833	10K 1% 0,1W	4856	482205120008	Jumper
2842	482212421913	1μF 20% 63V	3815	482205120472	4K7 5% 0,1W		3871	482205120471	470R 5% 0,1W	4857	482205120008	Jumper
		100 5 50/ 1/50 50//	0040	40001100000	1EV 19/ 0.1W		2072	400011710004	47K 19/ 0.1W	4950	482205120008	Jumper
2843	532212232531	100pF 5% NP0 50V	3816	482211683933	15K 1% 0,1W		3872 3873	482211710834 482205120223	47K 1% 0,1W 22K 5% 0,1W	4859 4863	482205120008	Jumper
2844	482212233575	220pF 5% NP0 63V	3817	482211710834	47K 1% 0,1W							•
2845	482212233575	220pF 5% NP0 63V	3818	482205120562	5K6 5% 0,1W		3874 3875	482205120223 482211710833	22K 5% 0,1W	4865 4866	482205120008 482205120008	Jumper Jumper
2846	482212440248	10µF 20% 63V	3819 3820	482211683933 482211710965	15K 1% 0,1W 18K 1% 0,1W		3875 3876	482211710833	10K 1% 0,1W 10K 1% 0,1W	4872	482205120008	Jumper
2848	532212232531	100pF 5% NP0 50V	3020	7022 117 1030J	1010 170 0,144		5570	102211110000		701 L	.02200120000	- spoi
2849	482212233575	220pF 5% NP0 63V	3821	482205120332	3K3 5% 0,1W		3878	482205120471	470R 5% 0,1W	4877	482205120008	Jumper
2850	482212233575	220pF 5% NP0 63V	3822	482205120332	3K3 5% 0,1W		3879	482211710834	47K 1% 0,1W	4881	482205120008	Jumper
2851	482212440248	10μF 20% 63V	3823	482205120332	3K3 5% 0,1W		3880	482205120339	33R 5% 0,1W	4884	482205120008	Jumper
2853	482212233177	10nF 20% X7R 50V	3824	482205110102	1K 2% 0,25W		3881	482211710353	150R 1% 0,1W	4885	482205120008	Jumper
2854	482212411912	220µF 20% 6,3V	3825	482205120223	22K 5% 0,1W		3882	482205120101	100R 5% 0,1W	4886	482205120008	Jumper

- RESISTORS

ELECTRIC

4888 4822

- COILS & FIL

- DIODES -

6877 4822

- IC & TRANSI

- MISCELLANI

B**O**00

Note : Only th€ normal :

ELECTRICAL PARTSLIST - CD99 DA11

			-		
- RESI	STORS -		- RESI	STORS -	
3826	482205120273	27K 5% 0,1W	3883	482205110102	1K 2% 0,25W
3827	482205120339	33R 5% 0,1W	3884	482205110102	1K 2% 0,25W
3828	482205120479	47R 5% 0,1W	3886	482211710833	10K 1% 0,1W
3829	482205120101	100R 5% 0,1W	3887	482211710833	10K 1% 0,1W
3830	482205120472	4K7 5% 0,1W	3888	482205120472	4K7 5% 0,1W
3835	482205120223	22K 5% 0,1W	3889	482205110102	1K 2% 0,25W
3836	482211710833	10K 1% 0,1W	3890	482211710837	100K 1% 0.1W
3837	482205120471	470R 5% 0,1W	3891	482211710837	100K 1% 0.1W
3838	482205120471	470R 5% 0,1W	3892	482211710837	100K 1% 0.1W
3839	482205120471	470R 5% 0,1W	3893	482211710837	100K 1% 0.1W
00.40	40000=4004=4	,			
3840 3841	482205120471	470R 5% 0,1W	3894	482211710833	10K 1% 0,1W
	482205120472	4K7 5% 0,1W	3895	482211710833	10K 1% 0,1W
3842	482205110102	1K 2% 0,25W	3896	482211710833	10K 1% 0,1W
3843	482205110102	1K 2% 0,25W	3897	482211710833	10K 1% 0,1W
3844	• 482205120101	100R 5% 0,1W	÷3898	482211710833	10K 1% 0,1W
3845	482205120228	2R2 5% 0,1W	3899	482211710833	10K 1% 0,1W
3846	482205120223	22K 5% 0,1W	3900	482205120223	22K 5% 0,1W
3847	482211711149	82K 1% 0,1W	4801	482205120008	Jumper
3848	482211710834	47K 1% 0,1W	4802	482205120008	Jumper
3849	482211711148	56K 1% 0,1W	4807	482205120008	Jumper
3850	482205120822	8K2 5% 0,1W	4808	482205120008	Jumper
3851	482211711148	56K 1% 0,1W	4809	482205120008	Jumper
3852	482211710834	47K 1% 0,1W	4810	482205120008	Jumper
3853	482211683933	15K 1% 0,1W	4812	482205120008	Jumper
3854	482205120822	8K2 5% 0,1W	4813	482205120008	Jumper
3855	482211640227	4R6 25% 12V	4814	482205120008	Jumper
3856	482205120683	68K 5% 0,1W	4815	482205120008	Jumper
3857	482205120683	68K 5% 0,1W	4823	482205120008	Jumper
3858	482205120392	3K9 5% 0,1W	4824	482205120008	Jumper
3859	482211710834	47K 1% 0,1W	4828	482205120008	Jumper
3860	482205110102	1K 2% 0,25W	4831	482205120008	Jumper
3861	482211710834	47K 1% 0,1W	4832	482205120008	Jumper
3862	482205110102	1K 2% 0,25W	4838	482205120008	Jumper
3863	482205210338	3R3 5% 0,33W	4845	482205120008	Jumper
3864	482211710833	10K 1% 0,1W	4847	482205120008	Jumper
3865	482205110102	1K 2% 0,25W	4848	482205120008	Jumper
3867	482205120223	22K 5% 0,1W	4850	482205120008	Jumper
3868	482211710833	10K 1% 0,1W	4853	482205120008	Jumper
3869	482211710833	10K 1% 0,1W	4856	482205120008	Jumper
3871	482205120471	470R 5% 0,1W	4857	482205120008	Jumper
3872	482211710834	47K 1% 0,1W	4859	482205120008	Jumper
3873	482205120223	22K 5% 0,1W	4863	482205120008	Jumper
3874	482205120223	22K 5% 0,1W	4865	482205120008	Jumper
3875	482211710833	10K 1% 0,1W	4866	482205120008	Jumper
3876	482211710833	10K 1% 0,1W	4872	482205120008	Jumper
3878	482205120471	470R 5% 0,1W	4877	48220E120000	lumpor
3879	482211710834	470H 5% 0,1W	487 <i>1</i> 4881	482205120008 482205120008	Jumper
3880	482205120339	33R 5% 0,1W	4884	482205120008	Jumper
3881	482211710353	150R 1% 0,1W	4885	482205120008	Jumper
3882	482205120101	100R 5% 0,1W	4886	482205120008	Jumper Jumper
	.52255120101	10011 070 0,144	-1000	120000	oumper

PHIL-05438 / DRUCK 30

ELECTRICAL PARTSLIST - CD99 DA11

- RESI	STORS -	
4888	482205120008	Jumper
4889	482205120008	Jumper
- COIL	S & FILTERS -	
1810	482224273557	Filter CST8,46MTW-TF01
5803	482215711231	Coil LAN02TB1R0J
- DIOD	ES -	
6877	482213011564	Diode UDZ3.9B
- IC & T	TRANSISTORS -	
7800	482220917324	IC SAA7325H
7802	532220911517	IC PC74HCU04T
7803	532213060123	Trans BC807-40
7804	532220982941	IC LM358D
7807	532213042755	Trans BC847C
7808	482220932852	IC TDA7073A/N2
7809	482220932852	IC TDA7073A/N2
7810	482220933165	IC TDA1308T/N1
7875	482213060511	Trans BC847B
- MISCI	ELLANEOUS -	
1800	482226510925	Connector 15P
1823	482226511207	Connector 6P
1824	482226511207	Connector 6P
8000	482232012178	Flexible Foil 15P

ELECTRICAL PARTSLIST - CONTROL BOARD

		-			
- CAPA	CITORS -		- RESIS	STORS -	
2400	5322 126 10223	4,7nF 10% X7R 63V	3400	4822 051 20471	470R 5% 0,1W
2401	4822 126 14043	1μF +80-20% Y5V 16V	3401	4822 116 83933	15K 1% 0,1W
2402	4822 126 14585	100nF 10% X7R 50V	3402	4822 117 10837	100K 1% 0.1W
2403	5322 122 32531	100pF 5% NP0 50V	3403	4822 051 20472	4K7 5% 0,1W
2404	5322 122 32531	100pF 5% NP0 50V	3404	4822 117 10833	10K 1% 0,1W
2406	4822 126 14083	4μ7 10V	3405	4822 117 12955	2K7 1% 0,1W
2407	5322 122 34099	470pF 10% X7R 63V	3406	4822 051 20223	22K 5% 0,1W
2408	4822 126 14491	2.2µF 10V	3407	4822 051 20223	22K 5% 0,1W
2409	5322 122 32531	100pF 5% NP0 50V	3408	4822 051 20223	22K 5% 0,1W
2411	5322 122 32531	100pF 5% NP0 50V	3409	4822 051 20223	22K 5% 0,1W
2412	5322 122 32531	100pF 5% NP0 50V	3410	4822 051 20223	22K 5% 0,1W
2413	4822 126 14043	1μF +80-20% Y5V 16V	3411	4822 051 20105	1M 5% 0,1W
2414	5322 122 32531	100pF 5% NP0 50V	3414	4822 117 11449	2K2 5% 0,1W
2415	5322 122 32531	100pF 5% NP0 50V	3415	4822 117 11449	2K2 5% 0,1W
2416	5322 122 32531	100pF 5% NP0 50V	3416	4822 051 20472	4K7 5% 0,1W
2417	5322 122 32531	100pF 5% NP0 50V	3417	4822 051 20472	4K7 5% 0,1W
2418	5322 122 32531	100pF 5% NP0 50V	3418	4822 051 20472	4K7 5% 0,1W
2419	5322 122 32531	100pF 5% NP0 50V	3419	4822 051 20472	4K7 5% 0,1W
2421	5322 122 31647	1nF 10% X7R 63V	3420	4822 051 20472	4K7 5% 0,1W
2422	4822 122 33575	220pF 5% NP0 63V	3421	4822 051 20105	1M 5% 0,1W
2423	5322 122 31647	1nF 10% X7R 63V	3422	4822 051 20332	3K3 5% 0,1W
2424	5322 122 32531	100pF 5% NP0 50V	3423	4822 051 20471	470R 5% 0,1W
2425	5322 122 32531	100pF 5% NP0 50V	3424	4822 051 20471	470R 5% 0,1W
2426	5322 122 32531	100pF 5% NP0 50V	3425	4822 051 20471	470R 5% 0,1W
2427	5322 122 32531	100pF 5% NP0 50V	3426	4822 051 20471	470R 5% 0,1W
2428	5322 122 32531	100pF 5% NP0 50V	3427	4822 051 20822	8K2 5% 0,1W
2429	5322 122 32531	100pF 5% NP0 50V	3428	4822 051 10102	1K 2% 0,25W
2430	4822 124 23432	100μF 20% 10V	3429	4822 051 20472	4K7 5% 0,1W
2431	5322 122 34099	470pF 10% X7R 63V	3430	4822 051 20472	4K7 5% 0,1W
2432	5322 122 32531	100pF 5% NP0 50V	3431	4822 117 10834	47K 1% 0,1W
2433	5322 122 32531	100pF 5% NP0 50V	3432	4822 117 10834	47K 1% 0,1W
2434	5322 122 34099	470pF 10% X7R 63V	3433	4822 117 11449	2K2 5% 0,1W
2435	5322 122 32531	100pF 5% NP0 50V	3434	4822 117 11449	2K2 5% 0,1W
2436	4822 122 33177	10nF 20% X7R 50V	3437	4822 051 10102	1K 2% 0,25W
2437	5322 122 32531	100pF 5% NP0 50V	3438	4822 051 10102	1K 2% 0,25W
2438	5322 122 32531	100pF 5% NP0 50V	3439	4822 051 10102	1K 2% 0,25W
2439	5322 122 32531	100pF 5% NP0 50V	3440	4822 051 10102	1K 2% 0,25W
2440	5322 122 32531	100pF 5% NP0 50V	3441	4822 051 10102	1K 2% 0,25W
2441	5322 122 32531	100pF 5% NP0 50V	3442	4822 051 20472	4K7 5% 0,1W
2442	5322 122 32531	100pF 5% NP0 50V	3443	4822 051 10102	1K 2% 0,25W
2444	4822 126 13689	18pF 1% NP0 63V	3444	4822 051 20472	4K7 5% 0,1W
			3445	4822 051 20472	4K7 5% 0,1W
			3446	4822 051 20472	4K7 5% 0,1W
			3447	4822 051 20822	8K2 5% 0,1W
			3448	4822 117 11449	2K2 5% 0,1W

ELECTRICAL PARTSLIST - CONTROL BOARD

- RESIS	TORS -		- RESIS	STORS -	
3449	4822 051 10102	1K 2% 0,25W	4407 .	4822 051 20008	Jumper
3452	4822 117 11449	2K2 5% 0,1W	4408	4822 051 20008	Jumper
3453	4822 117 11449	2K2 5% 0,1W	4409	4822 051 20008	Jumper
3454	4822 051 10102	1K 2% 0,25W	4410	4822 051 20008	Jumper
3455	4822 051 20101	100R 5% 0,1W	4411	4822 051 20008	Jumper
3456	4822 117 10833	10K 1% 0,1W	4412	4822 051 20008	Jumper
3457	4822 117 11503	220R 1% 0.1W	4413	4822 051 20008	Jumper
3460	4822 051 20223	22K 5% 0,1W	4414	4822 051 20008	Jumper
3461	4822 051 20223	22K 5% 0,1W	4415	4822 051 20008	Jumper
3462	4822 051 20223	22K 5% 0,1W	4416	4822 051 20008	Jumper
3463	4822 051 20101	100R 5% 0,1W	4417	4822 051 20008	Jumper
3464	4822 051 20182	1K8 5% 0,1W	4418	4822 051 20008	Jumper
3465	4822 051 20561	560R 5% 0,1W	4419	4822 051 20008	Jumper
3466	4822 051 20223	22K 5% 0,1W	4420	4822 051 20008	Jumper
3467	4822 051 20223	22K 5% 0,1W	4421	4822 051 20008	Jumper
3468	4822 051 20101	100R 5% 0,1W	4422	4822 051 20008	Jumper
3469	4822 051 20223	22K 5% 0,1W			
3470	4822 051 20223	22K 5% 0,1W	- COILS	3-	
3471	4822 051 20223	22K 5% 0,1W			
3472	4822 051 20223	22K 5% 0,1W	5400	4822 157 62552	Coil 2,2µH
			5401	2422 535 94279	Ind Fxd 100µH 5%
3473	4822 051 20223	22K 5% 0,1W			
3474	4822 051 20472	4K7 5% 0,1W	- DIODI	ES -	
3475	4822 051 20223	22K 5% 0,1W			
3477	4822 051 20223	22K 5% 0,1W	6400	4822 130 11411	Diode BZX284-C3V3
3478	4822 051 20223	22K 5% 0,1W	6401	5322 130 34337	Diode BAV99
			6403	4822 130 83059	LED TLUR4400
3479	4822 051 20223	22K 5% 0,1W			
3480	4822 051 20223	22K 5% 0,1W	- IC & T	RANSISTORS -	
3482	4822 117 10833	10K 1% 0,1W			10 71 170701/00 17
3483	4822 051 20105	1M 5% 0,1W	7400	3140 110 50860	IC TMP87CK20AF
3484	4822 051 20333	33K 5% 0,1W	7410	5322 130 60159	Trans BC846B
			7411	5322 130 60159	Trans BC846B
3485	4822 117 11454	820R 1% 0,1W	7412	9965 000 04931	IC M24C01-WMN6
3487	4822 051 20124	120K 5% 0,1W	7413	3140 110 50730	LCD Display WK-TP5238-RH-B
3488	4822 051 20109	10R 5% 0,1W	7440	0140 140 50700	LOD Display LE 00150AD
3489	4822 051 20333	33K 5% 0,1W	7413	3140 110 50720	LCD Display LE-06153AP
3490	4822 051 20472	4K7 5% 0,1W	7414	9322 155 82667	IR Receiver TSOP2236
2.400	1000 051 00105	484 507 0 4387	7415	5322 130 60159	Trans BC846B
3498	4822 051 20105	1M 5% 0,1W	7416	5322 130 60159	Trans BC846B
3533	4822 051 20101	100R 5% 0,1W	7417	4822 130 60373	Trans BC856B
3534	4822 051 20008	Jumper			
3535	4822 051 20223	22K 5% 0,1W	MICO	ELLANEOUC	
3536	4822 051 20223	22K 5% 0,1W	- MISC	ELLANEOUS -	
4402	4822 051 20008	Jumper	1400	2422 540 98455	Crystal 4MHz
4403	4822 051 20008	Jumper	1490	4822 265 11207	Connector 6P
4404	4822 051 20008	Jumper	1491	4822 267 10956	Connector 7P
4405	4822 051 20008	Jumper	1492	4822 267 10756	Connector 13P
4406	4822 051 20008	Jumper	1493	4822 267 10956	Connector 7P

ELECTRICAL PARTSLIST - TUNER BOARD ECO6

- CAP	ACTORS -		- CAP	ACTORS -	
2101	4822 126 13692	2 47pF 1% NP0 63V	2194	5322 122 31647	7 1nF 10% X7R 63V
2103	5322 122 31647		2195	4822 124 81151	
2104	5322 122 32531		2196		7 10nF 20% X7R 50V
2106	2020 800 00204			4822 122 33177	
2107	4822 121 51319		2107	+022 122 00177	10111 20 /0 X/H 50V
			- RESI	STORS -	
2108	5322 122 32531	100pF 5% NP0 50V			
2109		3 10pF 5% NP0 63V	3101	4822 051 20333	3 33K 5% 0,1W
2120		22pF 5% 50V	3102	4822 117 10837	•
2122	4822 122 33891		3103	4822 051 20822	
2123	2238 861 18391		3104	4822 117 13577	
		•	3105	4822 117 11503	
2125	2020 552 96199	560pF 1% 50V			22011 770 0.174
2126	5322 122 31863		3108	4822 117 11449	2K2 1% 0,1W
2127	4822 126 14076		3109	4822 117 11449	
2128	4822 124 40248		3123	4822 051 20472	
2129	4822 124 41584		3125	4822 117 10833	
			3128	4822 117 11449	
2130	4822 126 13482	470nF 80/20% 16V	0.20	1022 117 11443	2172 176 0,144
2131	4822 126 13482		3132	4822 051 20479	47R 5% 0,1W
2132		470nF 80/20% 16V	3134	4822 051 20223	,
2133		1μF 20% 63V	3137	4822 116 83933	
2134	4822 126 13188		3141	4822 117 11148	,
			3142	4822 100 12159	-,
2135	4822 126 13188	15nF 5% X7R 63V	J	.022 100 12100	10010 30 /6
2136	4822 126 14076		3145	4822 117 11449	2K2 1% 0,1W
2137	4822 126 14076		3152	4822 051 20471	-,
2138	4822 124 22652		3153	4822 051 20471	
2139	4822 126 14236		3155	4822 051 20479	
			3158	4822 051 20471	
2140	4822 126 13695	82pF 1% NP0 63V			17011 070 0,144
2141	4822 126 13838		3159	4822 051 20471	470R 5% 0,1W
2144	4822 126 13482		3160	4822 051 20471	
2145	4822 122 33575	220pF 5% NP0 63V	3161	4822 051 20223	22K 5% 0,1W
2146	4822 122 33575	220pF 5% NP0 63V	3166	4822 051 20479	47R 5% 0,1W
			3167	4822 051 20479	47R 5% 0,1W
2147	4822 122 33575	220pF 5% NP0 63V			,
2148	4822 122 33127	2,2nF 10% X7R 63V	3169	4822 051 20154	150K 5% 0,1W
2150	4822 126 13838		3180	4822 117 10833	10K 1% 0,1W
2152	4822 126 12105	33nF 5% X7R 50V	3186	4822 117 11448	180R 1% 0,1W
2153	4822 126 13486	15pF 2% NP0 63V	3187	4822 051 10102	1K 2% 0,25W
			3188	4822 117 11449	2K2 1% 0,1W
2155	2020 800 00191	Var Cap 3pF-11pF 100V			ŕ
2159	5322 122 32659	33pF 5% 50V	3189	4822 051 20223	22K 5% 0,1W
2163	4822 126 13838	100nF 80/20% Y5V 50V	3190	4822 117 10833	10K 1% 0,1W
2164	4822 126 13482	470nF 80/20% 16V	3191	4822 051 20472	4K7 5% 0,1W
2165	4822 126 13838	100nF 80/20% Y5V 50V	3192	4822 051 20105	1M 5% 0,1W
			3193	4822 117 11449	2K2 1% 0,1W
2166	5322 122 31647	1nF 10% X7R 63V			
2167	4822 122 33926	12pF 50V	3194	4822 117 10837	100K 1% 0.1W
2186	4822 124 40196	•	3195	4822 051 20474	470K 5% 0,1W
2187	4822 122 33177		3196	4822 117 10833	10K 1% 0,1W
2188	4822 122 33177	10nF 20% X7R 50V	4102	4822 051 20334	330K 5% 0,1W
			4105	4822 051 20008	Jumper
2189	4822 126 14076	220nF 80/20% 25V			
2190	4822 124 81151	Electrolytic 22µF 50V	4107	4822 051 20008	Jumper
2191	4822 124 81151	Electrolytic 22µF 50V	4108	4822 051 20008	Jumper
2192	5322 122 31647	1nF 10% X7R 63V	4110	4822 051 20008	Jumper
2193	5322 122 31647	1nF 10% X7R 63V			

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ELECTRICAL PARTSLIST - TUNER BOARD ECO6

- COIL	S & FILTERS -	
5102	4822 157 71634	MW Aerial
5103	2422 549 44107	Ind Var 252kHz
5109	4822 242 70665	
5110	4822 242 70665	
5111	2422 549 44023	
5112	4822 157 70302	Coil F7MCS-12216N
5114	4822 157 70302	Coil F7MCS-12216N
5119	4822 157 11443	Coil 2,4µH
5113	4822 242 10261	CrystalT 75kHz
5121	2422 549 44108	Ind Var 796kHz
	0400 540 44400	
5123	2422 549 44108	Ind Var 796kHz
5130	4822 157 11843	
5131	4822 157 11843	Coil MD7B-01F
- DIOD	ES-	
6103	5322 130 34337	Diode BAV99
6105	4822 130 83075	Diode HN1V02H-B
6120	4822 130 83757	
		2.000 27 10210
6130	4822 130 82833	Diode1SV228
6131	4822 130 82833	Diode1SV228
6181	5322 130 34337	
6182	4822 130 83757	Diode BAS216
6183	9340 386 90115	Diode BZX284-C11
- IC & T	RANSISTORS -	
7101	9351 740 80557	IC SM TEA5757H/V1
7102	4822 130 42131	Trans BF550
7104	4822 130 40855	
7104	4822 130 40855	Trans BC337
7105	4822 130 40855	Trans BC337 Trans BC856B
7100	E200 100 40755	Trans
7122 7124	5322 130 42755	
	5322 130 42755	
7180	4822 130 60373	
7181	5322 130 42755	
7182	5322 130 42755	Trans BC847C
7183	5322 130 42755	Trans BC847C
- MISCE	LLANEOUS -	
1121	4822 267 10722	Connector 4D
1121	4822 267 10733	
1122	4822 267 10954	Connector 5P

ELECTRICAL PARTSLIST - AF BOARD

- CAPA	CITORS -		- RESIS	STORS -	
2000	482212480144	220µF 20% 25V	3011	482211710833	10K 1% 0,1W
2001	482212614107	330nF +-80/20% Y5V 25V	3012	482205120121	120R 5% 0,1W
2002	482212232646	5,6nF 10%X7R 50V	3014	482205120121	120R 5% 0,1W
2003	482212614107	330nF +-80/20% Y5V 25V	3015	482205120109	10R 5% 0,1W
2003					
2004	482212441407	0,47μF 20% 63V	3016	482205120822	8K2 5% 0,1W
2005	482212232535	680pF 10%X7R 63V	3017	482205120471	470R 5% 0,1W
2006	482212233127	2,2nF 10%X7R 63V	3018	482211711449	2K2 1% 0,1W
2007	482212440433	47μF 20% 25V	3019	482211711503	220R 1% 0.1W
2008	482212480791	470µF 16V 20%	3020	482211710833	10K 1% 0,1W
2009	223891019852	150nF +-80/20% Y5V 25V	3021	482205120479	47R 5% 0,1W
2010	482212440433	47μF 20% 25V	3022	482211711152	4R7 5%
2011	482212441407	0,47µF 20% 63V	3023	212010892668	3R3 5%
2013	223891019852	150nF +-80/20% Y5V 25V	3024	212010892668	3R3 5%
2015	482212411767	470uF 20% 25V	3025	482211711503	220R 1% 0.1W
2016	482212440207	100μF 20% 25V	3026	482205120471	470R 5% 0,1W
			•		2,
2017	482212232646	5,6nF 10%X7R 50V	3028	482205120478	4K7 5% 0,1W
2018	482212232535	680pF 10%X7R 63V	3029	482205110102	1K 2% 0,25W
2019	482212233127	2,2nF 10%X7R 63V	3030	482205120471	470R 5% 0,1W
2020	482212440433	47μF 20% 25V	3031	482205120472	4K7 5% 0,1W
2021	482212440433	47μF 20% 25V	3032	482205120471	470R 5% 0,1W
2022	482212480791	470µF 16V 20%	3033	482211711503	220R 1% 0.1W
2023	482212440433	47μF 20% 25V	3034	482211711507	6K8 1% 0,1W
2025	482212411878	4700µF 16V	3035	482211711507	6K8 1% 0,1W
2026	482212441407	0,47μF 20% 63V	3036	482211710833	10K 1% 0,1W
2020	482212440207	100µF 20% 25V	3038	482205120472	•
2021	402212440207	100με 20% 250	3036	402203120472	4K7 5% 0,1W
2031	482212613692	47pF 1% NP0 63V	3039	482205120472	4K7 5% 0,1W
2032	482212613692	47pF 1% NP0 63V	3040	482205110102	1K 2% 0,25W
2033	482212480195	470µF 20% 10V	3041	482205110102	1K 2% 0,25W
2034	482212480195	470µF 20% 10V	9020	482205120008	Jumper
2035	482212440433	47µF 20% 25V			
		•			
2036	482212422652	2,2µF 20% 50V			
2037	482212422652	2,2µF 20% 50V			
2038	482212233127	2,2nF 10%X7R 63V	- DIODE	:	
2039	482212233127	2,2nF 10%X7R 63V			
2128	482212441407	0,47µF 20% 63V	6001	482213083757	Diode BAS216
			6002	482213083757	Diode BAS216
2131	482212233127	2,2nF 10%X7R 63V	6003	482213083757	Diode BAS216
			6008	482213011411	Diode BZX284-C3V3
- RESIS	TORS -		6010	482213083757	Diode BAS216
3000	482211711383	12K 1% 0,1W			
3001	482211711449	2K2 1% 0,1W			
3002	482205120223	22K 5% 0,1W			
3003	482205120223	22K 5% 0,1W			
3004	482211711449	2K2 1% 0,1W	- IC & T	RANSISTORS -	
2005	400011711440	OKO 10/ 0.1M	7000	4800120400E0	Tropo BCE47D
3005	482211711449	2K2 1% 0,1W	7000 7001	482213040959	Trans BC547B
3007	482205120822	8K2 5% 0,1W	7001	932213777682	IC TDA7449
3008	482205120471	470R 5% 0,1W	7002	482213040981	Trans BC337-25
3009	482211711503	220R 1% 0.1W	7004	482220931544	IC TA8227P
3010	482211711449	2K2 1% 0,1W	7005	482213040981	Trans BC337-25

ELECTRICAL PARTSLIST - AF BOARD

- IC & T	- IC & TRANSISTORS -						
7006	482213040981	Trans BC337-25					
7007	482213040981	Trans BC337-25					
7008	482213041246	Trans BC327-25					
7009	482213044568	Trans BC557B					
7010	482213040959	Trans BC547B					
7106	482213044568	Trans BC557B					
- MISCE	ELLANEOUS -						
1000	482226711039	Connector 11P					
1005	482226710953	Connector 7P					

ELECTRICAL PARTSLIST - FEATURE BOARD

	<u> </u>	w			
- CAPA	CITORS -		- CAPA	CITORS -	
2545	4822 122 33127	2,2nF 10% X7R 63V	2598	4822 122 33575	220pF 5% NP0 63V
2546	4822 122 33127	2,2nF 10% X7R 63V	2599	4822 124 23432	100μF 20% 10V
2547	5322 122 31866	6,8nF 10% X7R 63V		.011 /11 /10 /01	100pi 2070 101
2548	5322 122 31866	6,8nF 10% X7R 63V			
2549	4822 121 51252	470nF 5% 63V	- RESIS	STORS -	
2550	4900 101 51050	470-F 50/ 00V	0550	1000 117 10005	1016 104 0 1114
2551	4822 121 51252	470nF 5% 63V	3550	4822 117 10965	18K 1% 0,1W
	5322 122 31865	1,5nF 10% X7R 63V	3551	4822 117 10965	18K 1% 0,1W
2552	5322 122 31865	1,5nF 10% X7R 63V	3552	4822 051 10102	1K 2% 0,25W
2553	4822 122 32535	680pF 10% X7R 63V	3553	4822 051 10102	1K 2% 0,25W
2554	4822 122 32535	680pF 10% X7R 63V	3554	4822 051 20562	5K6 5% 0,1W
2556	4822 126 14585	100nF 10% X7R 50V	3555	4822 051 20562	5K6 5% 0,1W
2557	4822 126 14585	100nF 10% X7R 50V	3556	4822 117 13579	220K 1% 0.1W
2558	4822 126 13695	82pF 1% NP0 63V	3557	4822 117 13579	220K 1% 0.1W
2559	4822 126 13695	82pF 1% NP0 63V	3558	4822 117 10837	100K 1% 0.1W
2560	4822 122 33177	10nF 20% X7R 50V	3559 🚚	4822 117 10837	100K 1% 0.1W
2561	4822 122 33177	10nF 20% X7R 50V	3562	4822 116 83933	15K 1% 0,1W
2562	5322 122 31865	1,5nF10% X7R 63V	3563	4822 116 83933	15K 1% 0,1W
2563	5322 122 31865	1,5nF10% X7R 63V	3564	4822 051 20273	27K 5% 0,1W
2564	4822 122 33575	220pF 5% NP0 63V	3565	4822 051 20273	27K 5% 0,1W
2565	4822 122 33575	220pF 5% NP0 63V	3566	4822 117 11149	82K 1% 0,1W
2566	5322 121 42386	100nF 5% 63V	0567	4000 117 111 40	001/ 40/ 0414/
2567	5322 121 42386	100nF 5% 63V 100nF 5% 63V	3567	4822 117 11149	82K 1% 0,1W
2568	5322 121 42489	33F 5% 250V	3573	4822 051 20683	68K 5% 0,1W
2569	5322 121 42489	33F 5% 250V	3574	4822 051 20683	68K 5% 0,1W
2570	5322 121 42386	100nF 5% 63V	3575 3576	4822 116 83933 4822 116 83933	15K 1% 0,1W 15K 1% 0,1W
0574	F000 404 40000	100 5 50/ 001/			•
2571 2572	5322 121 42386	100nF 5% 63V	3577	4822 051 20333	33K 5% 0,1W
	5322 121 42489	33nF 5% 250V	3578	4822 051 20333	33K 5% 0,1W
2573 2574	5322 121 42489	33nF 5% 250V	3579	4822 117 10837	100K 1% 0.1W
2574 2575	4822 126 13188 4822 126 13188	15nF 5% X7R 63V 15nF 5% X7R 63V	3580 3581	4822 117 10837 4822 117 13579	100K 1% 0.1W 220K 1% 0.1W
					22011 170 0.111
2576	4822 126 13692	47pF 1% NP0 63V	3582	4822 117 13579	220K 1% 0.1W
2577	4822 126 13692	47pF 1% NP0 63V	3583	4822 051 20333	33K 5% 0,1W
2578		22μF 20% 16V	3584	4822 051 20333	33K 5% 0,1W
2579	4822 124 81151	22μF 50V	3585	4822 051 20333	33K 5% 0,1W
2580	4822 124 81151	22μF 50V	3586	4822 051 20333	33K 5% 0,1W
2581	5322 126 10223	4,7nF 10% X7R 63V	3587	4822 117 13579	220K 1% 0.1W
2582	5322 126 10223	4,7nF 10% X7R 63V	3588	4822 117 13579	220K 1% 0.1W
2583	5322 126 10223	4,7nF 10% X7R 63V	3589	4822 117 10965	18K 1% 0,1W
2584	4822 124 40196	220µF 20% 16V	3590	4822 117 10965	18K 1% 0,1W
2585	4822 124 41584	100μF 20% 10V	3591	4822 051 20154	150K 5% 0,1W
2586	5322 122 32654	22nF 10% X7R 63V	3592	4822 051 20154	150K 5% 0,1W
2587	5322 122 31647	1nF 10% X7R 63V	3593	4822 051 20683	68K 5% 0,1W
2588	5322 122 31647	1nF 10% X7R 63V	3594	4822 051 20683	68K 5% 0,1W
2589	4822 122 33177	10nF 20% X7R 50V	3595	4822 117 11149	82K 1% 0,1W
2590	4822 122 33177	10nF 20% X7R 50V	3596	4822 117 11149	82K 1% 0,1W
2591	5322 122 31647	1nF 10% X7R 63V	3597	4822 051 20822	0V0 E9/ 04\M
2592	5322 122 31647	1nF 10% X7R 63V	3598	4822 051 20822	8K2 5% 0,1W
2595	5322 122 31647	1nF 10% X7R 63V	3599	4822 051 20154	8K2 5% 0,1W
2595 2596	5322 122 31647	1nF 10% X7R 63V	3600	4822 051 20154	150K 5% 0,1W
2590 2597	4822 122 33575	220pF 5% NP0 63V	3601	4822 051 20154	150K 5% 0,1W
_001	TUEE 122 00010	220pi 3/8 N 0 00V	0001	7022 001 20003	33K 5% 0,1W

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ELECTRICAL PARTSLIST - FEATURE BOARD

- RESISTORS -					- COIL -			
3602	4822 051 20333	33K 5%	0,1W	5200	4822 157 10586	2,2µH 10%		
3603	4822 051 20333		0,1W	3200	4022 137 1030 <u>0</u>	2,2μ11 1070		
3604	4822 051 20333		0,1 W	- DIOD	EC _			
	4822 117 11454		% 0,1W	- 0100	<u> </u>			
3605	4822 117 11434		0,1W	eeen.	4822 130 83757	Diode BAS216		
3608	4022 110 03933	15K 1%	0,100	6550				
	1000 110 00000	1514 401	0.4147	6551	4822 130 83757	Diode BAS216		
3609	4822 116 83933	15K 1%		6552	4822 130 83757	Diode BAS216		
3610	4822 116 83933	15K 1%	-	6553	9322 033 20682	LED VS TLHG4405		
3611	4822 117 10834	47K 1%	•	6554	9322 146 69682	LED VS TLHO4400		
3612	4822 117 12521	68R 1%	0,1W					
3613	4822 117 10833	10K 1%	0,1W	6555	4822 130 31878	Diode 1N4003G		
3614	4822 051 20479	47R 5%	0,1W	- IC & 7	TRANSISTORS -			
3617	4822 051 20101	100R 5%	0,1W					
3620	4822 117 10834	47K 1%	0,1W	7200	4822 130 60373	Trans BC856B		
3621	4822 117 10834	47K 1%		7552	5322 130 60159	Trans BC846B		
3622	4822 051 20472	4K7 5%		7553	5322 130 60159	Trans BC846B		
			,	7554	5322 130 60159	Trans BC846B		
3623	4822 051 20472	4K7 5%	0,1W	7555	5322 130 60159	Trans BC846B		
3626	4822 117 10833	10K 1%		, 555	100 00 100			
3628	4822 117 10833	10K 1%		7556	5322 130 60159	Trans BC846B		
3630	4822 051 20339	33R 5%		7557	5322 130 60159	Trans BC846B		
			0,100					
3631	4822 051 20008	Jumper		7558	5322 209 14482	IC HEF4069UBT		
1500	4000 054 00000			7559	5322 130 60159	Trans BC846B		
1500	4822 051 20008	Jumper		7560	4822 130 60373	Trans BC856B		
1501	4822 051 20008	Jumper		- 17,				
502	4822 051 20008	Jumper		- MISCI	ELLANEOUS -			
503	4822 051 20008	Jumper						
504	4822 051 20008	Jumper		1250	4822 267 10958	Connector 5P		
				1251	4822 265 11183	Connector 4P		
505	4822 051 20008	Jumper		1501	2422 026 05076	Connector 1P		
506	4822 051 20008	Jumper		1504	4822 267 10756	Connector 13P		
507	4822 051 20008	Jumper		1551	4822 277 11846	Slide Switch		
508	4822 051 20008	Jumper						
509	4822 051 20008	Jumper		1552	2422 128 02922	Push Switch		
				1553	2422 128 02922	Push Switch		
510	4822 051 20008	Jumper		1554	2422 128 02922	Push Switch		
511	4822 051 20008	Jumper		1555	4822 273 10366	Rotary Switch		
513	4822 051 20008	Jumper		1625	4822 265 11207	Connector 6P		
514	4822 051 20008	Jumper		1020	TULL 200 1120/	JUNITEDIOI OF		
515	4822 051 20008	Jumper		1801	4822 265 11207	Connector 6P		
010	4022 031 20000	oumper		1001	4022 203 11207	Connector or		
518	4822 051 20008	Jumper		Note: C	only these parts me	entioned in the list a		
519	4822 051 20008	Jumper			ormal service parts			
520	4822 051 20008	Jumper			•			
521	4822 051 20008	Jumper						
522	4822 051 20008	Jumper						
523	4822 051 20008	Jumper						
524	4822 051 20008	Jumper						
525	4822 051 20008	Jumper						
528	4822 051 20008	Jumper						
529	4822 051 20008	Jumper						
J_U	TULL US 1 20000	Jumpel						
530	4822 051 20008	Jumper						

- CAPA	CITORS -	
2703	482212481151	22μF 50V
2704	482212481151	22µF 50V
2706	482212440433	47μF 20% 25V
2707	482212440196	220µF 20% 16V
2708	482212440433	47μF 20% 25V
2709	482212440433	47μF 20% 25V
2710	482212441584	100μF 20% 10V
2711	482212481151	22μF 50V
2712	482212612878	1,5nF 10% 16V
2714	482212612878	1,5nF 10% 16V
2715	482212151387	10nF 20% 16V
2716	482212612882	100nF +80-20% 50V
2719	482212613098	5,6nF 20% 16V
2721	482212612878	1,5nF 10% 16V
2722	482212151387	10nF 20% 16V
2723	482212612882	100nF +80-20% 50V
2726	482212613098	5,6nF 20% 16V
2727	482212612878	1,5nF 10% 16V
2728	482212611714	4,7nF 20%
2729	482212611714	4,7nF 20%
2730	202030090561	1,2nF 10%
2732	482212210577	3,3nF 10% 16V
2733	482212151387	10nF 20% 16V
2738	482212151387	10nF 20% 16V
2739	482212151387	10nF 20% 16V
0750	10001001000	5.0.5 000/ d01/
2750	482212613098	5,6nF 20% 16V
2751	482212613098	5,6nF 20% 16V
- RESIS	TORS -	
0704	100011000177	100D 50/ 0.5W
3701	482211652175	100R 5% 0,5W
3703	482211683868	150R 5% 0,5W
3704	482211683872	220R 5% 0,5W
3706	482211652272	330K 5% 0,5W
3707	482211652285	470K 5% 0,5W
3710	482211652264	27K 5% 0,5W
3712	482211652238	12K 5% 0,5W
3713	482211683868	150R 5% 0,5W
3714	482211683872	220R 5% 0,5W
3716	482211652272	330K 5% 0,5W
3719	482211652264	27K 5% 0,5W
3719	482211652238	12K 5% 0,5W
3720 3722	482211652257	22K 5% 0,5W
3723	482211652257	22K 5% 0,5W
3726	482211652256	2K2 5% 0,5W
-		·

RESIS	TORS -	
3727	482211652256	2K2 5% 0,5W
3730	482211683868	150R 5% 0,5W
3731	482211652291	56K 5% 0,5W
3732	482211652176	10R 5% 0.5W
3733	482211130893	4M7 5% 0,2W
3734	482205021003	10K 1% 0,6W
3743	482211683883	470R 5% 0,5W
3744	482211683883	470R 5% 0,5W
3747	482211683868	150R 5% 0,5W
3748	482211683883	470R 5% 0,5W
3749	482211683883	470R 5% 0,5W
3761	482211652289	5K6 5% 0,5W
3762 ·	482211652289	5K6 5% 0,5W
COIL -	•	
5701	482215710371	Coil 100kHz
DIODE	-	
6704	482213030621	Diode 1N4148
IC & T	RANSISTORS -	
702	482213040981	Trans BC337-25
7705	482220917498	IC AN7323
1707	482227711504	Push Switch
MISCE	LLANEOUS -	
725	482226511207	Connector 6P
	only these parts mo	entioned in the list ar s.

ELECTRICAL PARTSLIST - KEYBOARD

- MISC	ELLANEOUS -	
1450	2422 128 02917 Tact Switch	
1451	2422 128 02917 Tact Switch	
1452	2422 128 02917 Tact Switch	
1453	2422 128 02917 Tact Switch	
1454	2422 128 02917 Tact Switch	
1455	2422 128 02917 Tact Switch	
1456	2422 128 02917 Tact Switch	
1457	2422 128 02917 Tact Switch	
1458	2422 128 02917 Tact Switch	
1459	2422 128 02917 Tact Switch	
1494	4822 267 10956 Connector 7P	

Note: Only these parts mentioned in the list are normal service parts.

ELECTRICAL PARTSLIST - POWER BOARD

- CAPA	ACITORS -		
2028	4822 122 33197 1nF 10% 50V		
2029	4822 122 33197 1nF 10% 50V		
2030	5322 121 42386 100nF 5% 63V		
2031	4822 122 33197 1nF 10% 50V		
2032	4822 122 33197 1nF 10% 50V		
- DIODES -			

6004	4822 130 31878 Diode 1N4003G	
6005	4822 130 31878 Diode 1N4003G	
6006	4822 130 31878 Diode 1N4003G	
6007	4822 130 31878 Diode 1N4003G	

- MISCELLANEOUS -

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(01)
17)

Note: Only these parts mentioned in the list are normal service parts.

ELECTRICAL PARTSLIST - MISCELLANEOUS

- CAF	PACITORS -
2129	
2130	2020 009 90099 4,7μF 20% 50V
- MIS	CELLANEOUS -
1010	8240 008 80060 Loudspeaker 4" 4 Ohm
1011	8240 008 80060 Loudspeaker 4" 4 Ohm
1012	02.0
1013	02.000
1014	4822 276 13963 CD Door Switch
	A
	△ 3140 118 32340 Transformer (For -/00/05/10/13/14)
	△ 3140 118 32350 Transformer (For -/01/11)
	↑ 3140 118 32360 Transformer (For -/17)
8100	
8101	3139 110 34420 FFC Foil 5P 340
8400	3139 110 34500 FFC Foil 13P 140
8401	3139 110 34480 FFC Foil 7P 140
8402	3139 110 34470 FFC Foil 7P 08
8500	3139 110 34490 FFC Foil 11P 180
8625	4822 320 12243 Flex Cable 6P 18
8800	3139 110 34360 FFC Foil 6P 280
8801	3139 110 34360 FFC Foil 6P 280
	3139 110 34360 FFC Foil 6P 280 Only these parts mentioned in the list are

normal service parts.

ELECTRICAL PARTSLIST - CONTROL BOARD

			DECICTORS		
MISCELLA	NEOUS		RESISTO	къ	
1402	4822 267 10756	FFC SOCKET 13P	3400	4822 051 30101	100R 5% 0,062W
1405	4822 265 11183	FFC SOCKET 4P	3401	4822 051 30471	470R 5% 0,062W
1406	4822 267 10956	FFC SOCKET 7P	3402	4822 051 30102	1K 5% 0,062W
1407	4822 265 11207	FFC SOCKET 6P	3403	4822 117 13632	100K 1% 0.62W
7400	9322 155 82667	IR RECEIVER TSOP2236	3404	4822 051 30221	220R 5% 0,062W
					0014 504 0 000144
7401	3140 110 50730	LCD WK-TP5238-RH-B	3405	4822 051 30223	22K 5% 0,062W
8402	3139 110 36050	FFC FOIL 4P 80MM AD	3406	4822 051 30223 4822 051 30223	22K 5% 0,062W 22K 5% 0,062W
			3407 3408	4822 051 30223	22K 5% 0,062W
CARACIT	000		3408 3409	4822 051 30223	22K 5% 0,062W
CAPACIT	URS		_ 3409	4022 001 00220	2217 0 70 0,00211
2400	2020 552 96305	4,7uF +80-20% Y5V 10V	3411	4822 051 30103	10K 5% 0,062W
2401	4822 126 13883	220pF 5% 50V	3412	4822 051 30334	330K 5% 0,062W
2402	3198 016 31020	1nF 10% NP0 25V	3413	4822 051 30681	680R 5% 0,062W
2403	4822 126 13881	470pF 5% 50V	3414	4822 051 30472	4,7K 5% 0,062W
2405	4822 124 40433	47uF 20% 25V	3415	4822 051 30121	120R 5% 0,062W
		T. T. () D. ()	0440	4000 447 40074	1ED E0/ MODOS 0 63\M
2406	4822 122 31765	100pF 5% NP0 63V	3416	4822 117 12971	15R 5% MCR03 0,62W
2407	4822 122 31765	100pF 2% NP0 63V	3417	4822 051 30223	22K 5% 0,062W
2408	4822 122 31765	100pF 5% NP0 63V	3418	4822 051 30472	4,7K 5% 0,062W
2412	4822 122 31765	100pF 5% NP0 63V	3420	4822 051 30392	3,9K 5% 0,062W
2413	3198 017 41050	1uF 20% Y5V 10V	3421	4822 051 30153	15K 5% 0,062W
2414	4822 122 31765	100pF 5% NP0 63V	3422	4822 117 13632	100K 1% 0.62W
2415	4822 122 31765	100pF 5% NP0 63V	3423	4822 051 30392	3,9K 5% 0,062W
2416	5322 126 11583	10nF 10% X7R 50V	3424	4822 051 30102	1K 5% 0,062W
2417	4822 122 33752	15pF 5% NP0 50V	3425	4822 051 30102	1K 5% 0,062W
2418	4822 122 33752	15pF 5% NP0 50V	3426	4822 051 30392	3,9K 5% 0,062W
			0.407	4000 051 00100	+14 F0/ 0 000M/
2419	4822 122 31765	100pF 5% NP0 63V	3427	4822 051 30102	1K 5% 0,062W
2420	4822 122 31765	100pF 5% NP0 63V	3428	4822 051 30332	3,3K 5% 0,062W
2421	4822 122 31765	100pF 5% NP0 63V	3429	4822 051 30102	1K 5% 0,062W
2422	4822 126 14305	100nF 10% X7R 16V	3430	4822 051 30102	1K 5% 0,062W
2423	4822 124 41584	100uF 20% 10V	3431	4822 051 30471	470R 5% 0,062W
2424	4822 122 33741	10pF 5% NP0 50V	3432	4822 051 30472	4,7K 5% 0,062W
2425	4822 122 33741	10pF 5% NP0 50V	3433	4822 051 30472	4,7K 5% 0,062W
2426	5322 126 11583	10nF 10% X7R 50V	3435	4822 051 30223	22K 5% 0,062W
2427	5322 126 11583	10nF 10% X7R 50V	3436	4822 051 30223	22K 5% 0,062W
2428	5322 126 11583	10nF 10% X7R 50V	3437	4822 051 30223	22K 5% 0,062W
	1000 100 01707	400-F 50/ ND0 00V	3438	4822 051 30223	22K 5% 0,062W
2429	4822 122 31765	100pF 5% NP0 63V	3436 3439	4822 051 30223	22K 5% 0,062W
2430	4822 122 31765	100pF 5% NP0 63V	3439	4822 051 30102	1K 5% 0,062W
2431	4822 122 31765	100pF 5% NP0 63V		4822 051 30472	4,7K 5% 0,062W
2432	4822 122 31765	100pF 5% NP0 63V	3441	4822 051 30472	4,7K 5% 0,062W
2434	4822 126 14491	2.2uF 10V 0805	3442	4022 031 30472	4,710 370 0,00211
2435	4822 124 41584	100uF 20% 10V	3443	4822 051 30472	4,7K 5% 0,062W
2436	3198 017 42230	22nF 20% Y5V 50V	3444	4822 051 30102	1K 5% 0,062W
2437	4822 122 33741	10pF 5% NP0 50V	3445	4822 051 30101	100R 5% 0,062W
2438	4822 122 33741	10pF 5% NP0 50V	3446	4822 051 30102	1K 5% 0,062W
2439	4822 122 33741	10pF 5% NP0 50V	3447	4822 051 30223	22K 5% 0,062W
			0.440	4000 054 00000	001/ 50/ 0.0601/1
2440	4822 122 31765	100pF 5% NP0 63V	3448	4822 051 30223	22K 5% 0,062W
2441	5322 126 11578	1nF 10% X7R 50V	3449	4822 051 30222	2,2K 5% 0,062W
2442	4822 126 13881	470pF 5% 50V	3450	4822 051 30102	1K 5% 0,062W
2443	4822 126 13881	470pF 5% 50V	3451	4822 051 30222	2,2K 5% 0,062W
			3455	4822 051 30101	100R 5% 0,062W

ELECTRICAL PARTSLIST - CONTROL BOARD

MISCELLANEOUS			RESISTORS		
1402	4822 267 10756	FFC SOCKET 13P	3400	4822 051 30101	100R 5% 0,062W
1402	4822 265 11183	FFC SOCKET 4P	3401	4822 051 30471	470R 5% 0,062W
	4822 267 10956	FFC SOCKET 7P	3402	4822 051 30102	1K 5% 0,062W
1406	4822 265 11207	FFC SOCKET 6P	3403	4822 117 13632	100K 1% 0.62W
1407	9322 155 82667	IR RECEIVER TSOP2236	3404	4822 051 30221	220R 5% 0,062W
7400	9322 155 82007	IN NECEIVEN 130F2230	3404	4022 001 00221	22011 0 70 0,00211
7401	3140 110 50730	LCD WK-TP5238-RH-B	3405	4822 051 30223	22K 5% 0,062W
8402	3139 110 36050	FFC FOIL 4P 80MM AD	3406	4822 051 30223	22K 5% 0,062W
			3407	4822 051 30223	22K 5% 0,062W
			3408	4822 051 30223	22K 5% 0,062W
CAPACIT	ORS		3409	4822 051 30223	22K 5% 0,062W
2400	0000 FF0 0000F	4.7uE .00.00% VEV.10V	3411	4822 051 30103	10K 5% 0,062W
2400	2020 552 96305	4,7uF +80-20% Y5V 10V	3411	4822 051 30334	330K 5% 0,062W
2401	4822 126 13883	220pF 5% 50V		4822 051 30681	680R 5% 0,062W
2402	3198 016 31020	1nF 10% NP0 25V	3413		4,7K 5% 0,062W
2403	4822 126 13881	470pF 5% 50V	3414	4822 051 30472	•
2405	4822 124 40433	47uF 20% 25V	3415	4822 051 30121	120R 5% 0,062W
2406	4822 122 31765	100pF 5% NP0 63V	3416	4822 117 12971	15R 5% MCR03 0,62W
2407	4822 122 31765	100pF 2% NP0 63V	3417	4822 051 30223	22K 5% 0,062W
2408	4822 122 31765	100pF 5% NP0 63V	3418	4822 051 30472	4,7K 5% 0,062W
2412	4822 122 31765	100pF 5% NP0 63V	3420	4822 051 30392	3,9K 5% 0,062W
2413	3198 017 41050	1uF 20% Y5V 10V	3421	4822 051 30153	15K 5% 0,062W
0414	4000 100 01765	100nE 59/ ND0 59//	3422	4822 117 13632	100K 1% 0.62W
2414	4822 122 31765	100pF 5% NP0 63V * 100pF 5% NP0 63V	3423	4822 051 30392	3,9K 5% 0,062W
2415	4822 122 31765	•	3423	4822 051 30102	1K 5% 0,062W
2416	5322 126 11583	10nF 10% X7R 50V		4822 051 30102	1K 5% 0,062W
2417	4822 122 33752	15pF 5% NP0 50V	3425		3,9K 5% 0,062W
2418	4822 122 33752	15pF 5% NP0 50V	3426	4822 051 30392	3,9K 5% 0,002VV
2419	4822 122 31765	100pF 5% NP0 63V	3427	4822 051 30102	1K 5% 0,062W
2420	4822 122 31765	100pF 5% NP0 63V	3428	4822 051 30332	3,3K 5% 0,062W
2421	4822 122 31765	100pF 5% NP0 63V	3429	4822 051 30102	1K 5% 0,062W
2422	4822 126 14305	100nF 10% X7R 16V	3430	4822 051 30102	1K 5% 0,062W
2423	4822 124 41584	100uF 20% 10V	3431	4822 051 30471	470R 5% 0,062V
0.40.4	4000 400 00741	10°E 50/ NDO 50/	3432	4822 051 30472	4,7K 5% 0,062W
2424	4822 122 33741	10pF 5% NP0 50V 10pF 5% NP0 50V	3433	4822 051 30472	4,7K 5% 0,062W
2425	4822 122 33741	•		4822 051 30472	22K 5% 0,062W
2426	5322 126 11583	10nF 10% X7R 50V	3435 3436	4822 051 30223	22K 5% 0,062W
2427	5322 126 11583	10nF 10% X7R 50V	3436	4822 051 30223	22K 5% 0,062W
2428	5322 126 11583	10nF 10% X7R 50V	3437	4022 001 30223	ZZIN U /0 U,UUZVV
2429	4822 122 31765	100pF 5% NP0 63V	3438	4822 051 30223	22K 5% 0,062W
2430	4822 122 31765	100pF 5% NP0 63V	3439	4822 051 30223	22K 5% 0,062W
2431	4822 122 31765	100pF 5% NP0 63V	3440	4822 051 30102	1K 5% 0,062W
2432	4822 122 31765	100pF 5% NP0 63V	3441	4822 051 30472	4,7K 5% 0,062V
2434	4822 126 14491	2.2uF 10V 0805	3442	4822 051 30472	4,7K 5% 0,062V
0.405	4000 404 4450	100E 000/ 10V	0.440	4900 DE4 00470	4 7K 59/ 0 069M
2435	4822 124 41584	100uF 20% 10V	3443	4822 051 30472 4822 051 30102	4,7K 5% 0,062 V 1K 5% 0,062W
2436	3198 017 42230	22nF 20% Y5V 50V	3444		100R 5% 0,062V
2437	4822 122 33741	10pF 5% NP0 50V	3445	4822 051 30101	•
2438 2439	4822 122 33741 4822 122 33741	10pF 5% NP0 50V 10pF 5% NP0 50V	3446 3447	4822 051 30102 4822 051 30223	1K 5% 0,062W 22K 5% 0,062W
2408	4022 122 33/41	10p1 070 NI 0 00 V	0-1-1	.522 557 55225	
2440	4822 122 31765	100pF 5% NP0 63V	3448	4822 051 30223	22K 5% 0,062W
2441	5322 126 11578	1nF 10% X7R 50V	3449	4822 051 30222	2,2K 5% 0,062V
2442	4822 126 13881	470pF 5% 50V	3450	4822 051 30102	1K 5% 0,062W
2443	4822 126 13881	470pF 5% 50V	3451	4822 051 30222	2,2K 5% 0,062V
			3455		100R 5% 0,062V

ELECTRICAL PARTSLIST - CONTROL BOARD

RESISTORS		COILS & FILTERS			
3456	4822 051 30103	10K 5% 0,062W	1404	2422 540 98455	RES CER 4,194MHz
3457	4822 051 30103	10K 5% 0,062W	5400	4822 157 62552	2,2uH
3458	4822 051 30222	2,2K 5% 0,062W	5401	4822 157 62552	2,2uH
34 59	4822 051 30562	5,6K 5% 0,062W	5402	2422 535 94279	100uH 5%
3463	4822 051 30222	2,2K 5% 0,062W	5.52		1000.1070
		2,2. (0 /0 0 ,002 ()	DIODES		
3464	4822 051 30562	5,6K 5% 0,062W			
3465	4822 051 30102	1K 5% 0,062W	6400	9322 025 78682	LED TLUR5400
3466	4822 051 30472	4,7K 5% 0,062W	6401	4822 130 11564	UDZ3.9B
3467	4822 051 30223	22K 5% 0,062W	6402	4822 130 10838	UDZ3.3B
3468	4822 051 30223	22K 5% 0,062W	6403	5322 130 34337	BAV99
•	1022 001 00220	LLIK 8 / 6 6,00L 11	0400	0022 100 04007	DAV55
3469	4822 051 30223	22K 5% 0,062W			
3470	4822 051 30102	1K 5% 0,062W	TRANSI	STORS AND IC	
3471	4822 051 30102	1K 5% 0,062W			
3472	4822 117 12925	47K 1% 0,062W	7402	5322 130 42755	BC847C
3473	4822 117 12925	47K 1% 0,062W	7403	5322 130 42755	BC847C
- ···•	12020		7404	4822 130 60511	BC847B
3474	4822 051 30471	470R 5% 0,062W	7404 7405	3140 110 51420	TMP86CH21F
3475	4822 051 30471	470R 5% 0,062W	7405 7406	9965 000 04931	M24C01-WMN6
3476	4822 051 30008	0R Jumper 0603	7400	3303 000 04331	10124001-00101100
3477	4822 051 30471	470R 5% 0,062W	7407	4822 130 60511	DC047D
3478	4822 051 30222	2,2K 5% 0,062W	7407	4622 130 60311	BC847B
3479	4822 051 30222	2,2K 5% 0,062W			
0479	4022 031 30222	2,21(3 /6 0,002)			
3480	4822 051 30471	470R 5% 0,062W			
3481	4822 051 30101	100R 5% 0,062W	ELEC	TRICAL PARTS	LIST - KEYBOARD
3482	4822 117 12903	1,8K 1% 0,062W			
3483	4822 051 30561	560R 5% 0,062W	MISCEL	LANEOUS	
3485	4822 051 30472	4,7K 5% 0,062W	1408	2422 128 02917	SWITCH-TACT
3486	4822 051 30223	22K 5% 0,062W	1409	2422 128 02917	SWITCH-TACT
4401	4822 051 30008	0R Jumper 0603	1410	2422 128 02917	SWITCH-TACT
4402	4822 051 30008	0R Jumper 0603	1411	2422 128 02917	SWITCH-TACT
4403	4822 051 30008	0R Jumper 0603	1412	2422 128 02917	SWITCH-TACT
				2 122 123 020 17	
4404	4822 051 30008	0R Jumper 0603	1414	2422 128 02917	SWITCH-TACT
4405	4822 051 30008	0R Jumper 0603	1415	2422 128 02917	SWITCH-TACT
4406	4822 051 30008	0R Jumper 0603	1416	2422 128 02917	SWITCH-TACT
4407	4822 051 30008	0R Jumper 0603	1417	2422 128 02917	SWITCH-TACT
4408	4822 051 30008	0R Jumper 0603	1418	2422 128 02917	SWITCH-TACT
4409	4822 051 30008	0R Jumper 0603	RESIST	ODS	
4410	4822 051 30008	0R Jumper 0603	112331	0110	
4411	4822 051 30008	0R Jumper 0603	3487	4833 DE1 20222	2 2K E9/ 0 060M
4412	4822 051 30008	0R Jumper 0603		4822 051 30222	2,2K 5% 0,062W
4413	4822 051 30008	OR Jumper 0603	3488	4822 051 30152	1,5K 5% 0,062W
7710	001 00000	or routhpor 0000	3489 3490	4822 051 30102	1K 5% 0,062W
4414	4822 051 30008	OR Jumper 0602	3490	4822 051 30471	470R 5% 0,062W
		OR Jumper 0603	3491	4822 051 30222	2,2K 5% 0,062W
4415 4416	4822 051 30008	OR Jumper 0603	0.400	4000 054 00455	4 EK EK 0 0 00000
4416 4417	4822 051 30008	0R Jumper 0603	3492	4822 051 30152	1,5K 5% 0,062W
4417	4822 051 30008	0R Jumper 0603	3493	4822 051 30102	1K 5% 0,062W
4418	4822 051 30008	0R Jumper 0603	3494	4822 051 30471	470R 5% 0,062W
4419	4822 051 30008	0R Jumper 0603			
VR201	9965 000 10902	Rotary VR 50KBx2			
		and the second second second	Note:	Only these parts me	ntioned in the list are

A01-555



Product Service Group CE Audio

Service Information

Already published Service Informations: A01-553

3140 785 22790

From week 0135 onwards, the Control Board and the Keyboard are replaced because a new Microprocessor IC (7405) is used.

For servicing, please refer to the attached pages.

Wiring Diagram	6 - 2
Control board - circuit & layout diagram	9 - 39 - 4
Keyboard - circuit & layout diagram	
Electrical partslist	16 - 716 - 8

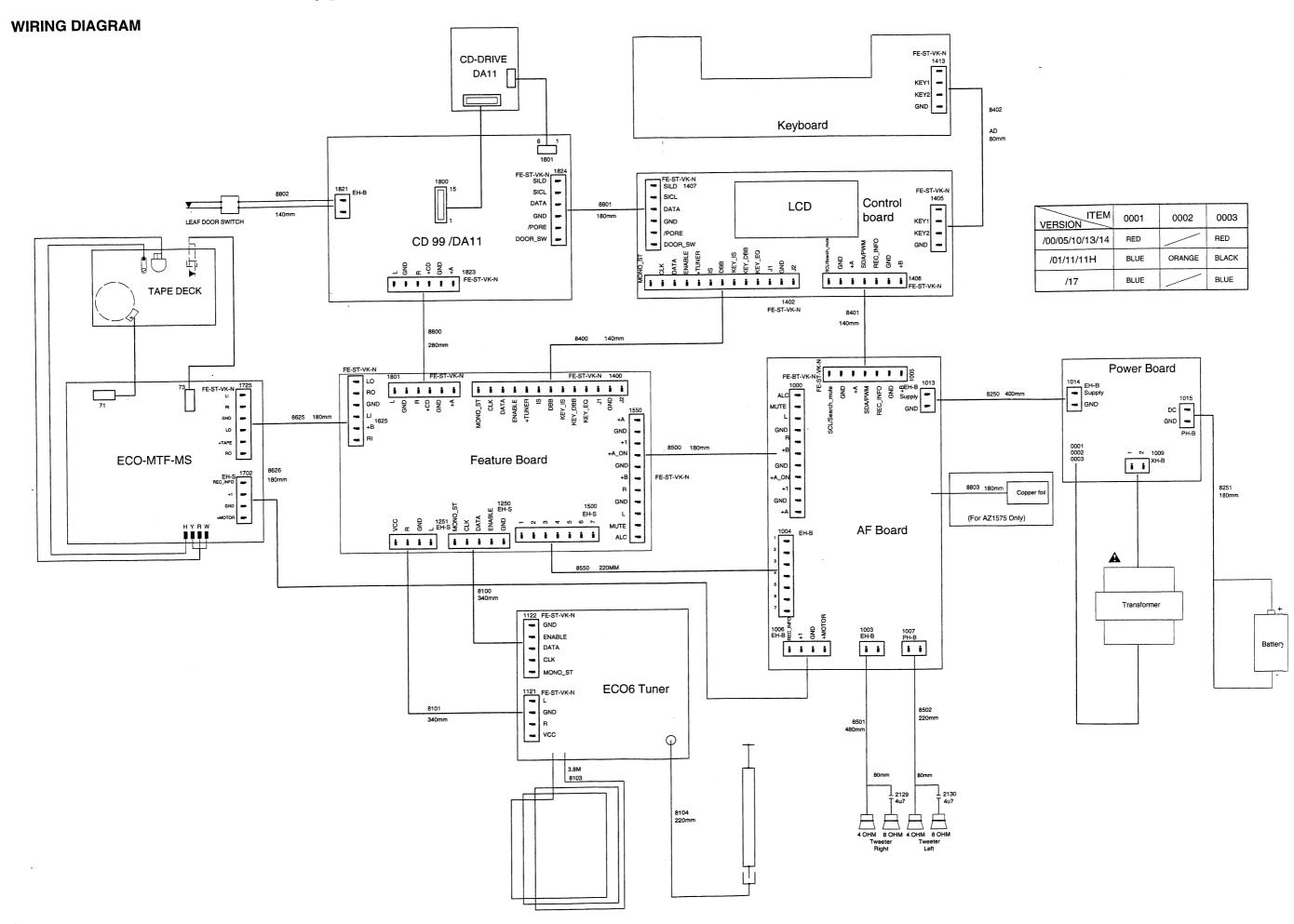
Note:

Code number of new boards: 3140 113 3255x Key board

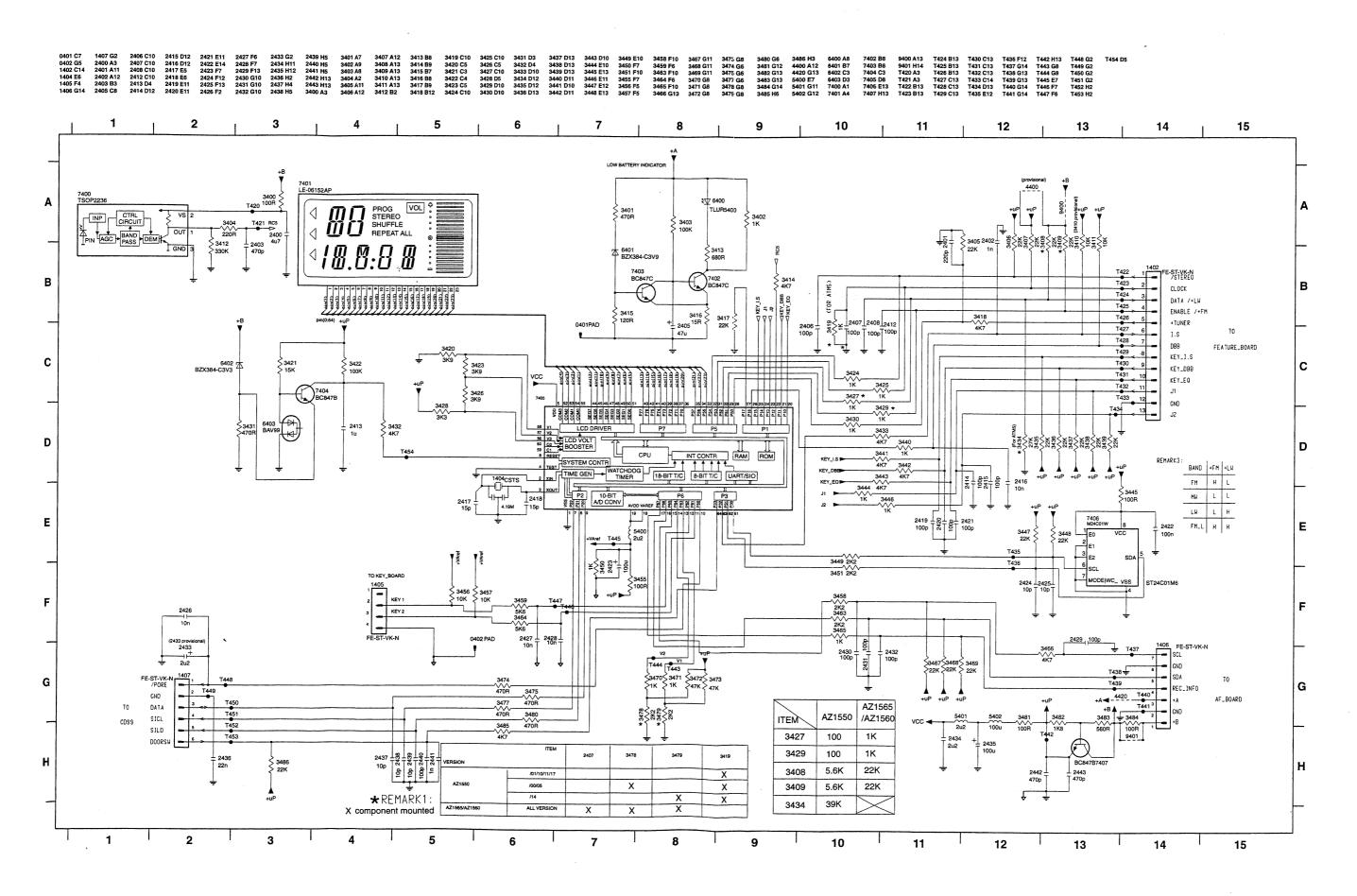
3140 113 3256x Control board



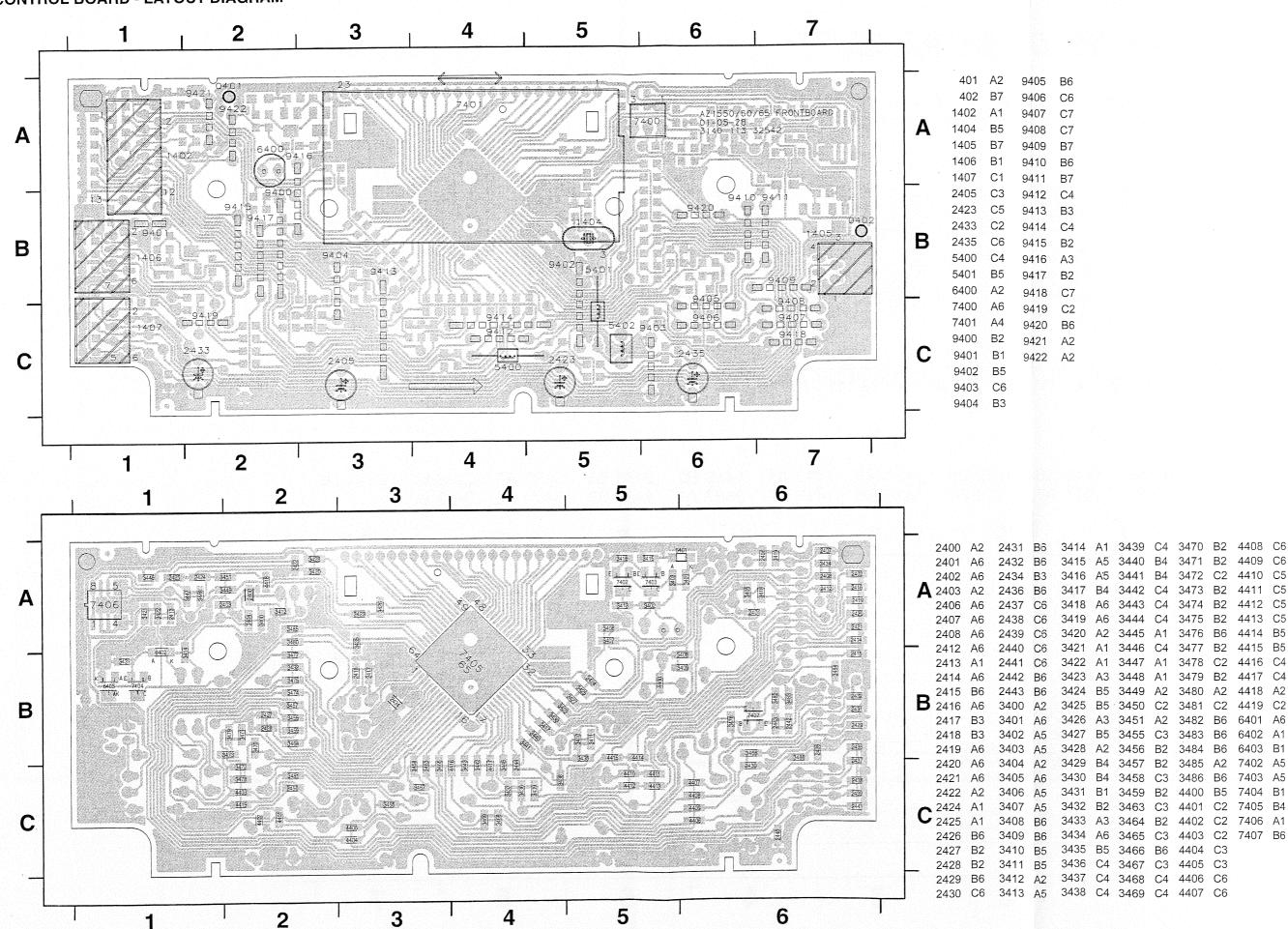




CONTROL BOARD - CIRCUIT DIAGRAM

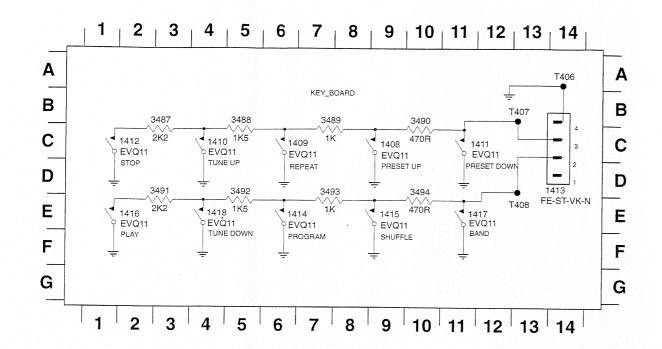


CONTROL BOARD - LAYOUT DIAGRAM



KEYBOARD - CIRCUIT & LAYOUT DIAGRAM

1408 C9 1411 C11 1414 E6 1417 E11 3488 C5 3491 E3 3494 E10 T408 D13 1409 C6 1412 C1 1415 E9 1418 E4 3489 C7 3492 E5 T406 A14 1410 C4 1416 E1 1413 C14 3487 C3 3490 C10 3493 E7 T407 B13



1408 A7 1410 B6 1412 A1 1414 A1 1416 A1 1418 B2 3488 B5 3490 A7 3492 B2 3494 B6 1409 B4 1411 A7 1413 B7 1415 B4 1417 A7 3487 A1 3489 B5 3491 B2 3493 B3

